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Water Resources Data for New Jersey
Water Year 1971. Part 2
Water Quality Records

(U.S.) Geological Survey, Trenton, NJ Water Resources Div

1972

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1971

Water Resources Data for New Jersey

Water Year 1971

Part 2. Water Quality Records

MARCH 3, 1849

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UNITED STATES
DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NJ-71-2

Prepared in cooperation with the State of New Jersey
and with other agencies

283

CALENDAR FOR WATER YEAR 1971

OCTOBER 1970

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

NOVEMBER 1970

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

DECEMBER 1970

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JANUARY 1971

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

FEBRUARY 1971

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28						

MARCH 1971

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

APRIL 1971

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

MAY 1971

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

JUNE 1971

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

JULY 1971

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

AUGUST 1971

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

SEPTEMBER 1971

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

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Water resources data for the 1971 water year for New Jersey consist of records of discharge and water quality of streams, and water quality of lakes and reservoirs. This report contains water quality for 50 gaging stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in New Jersey.

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Water Resources Data for New Jersey Water Year 1971

Part 2. Water Quality Records

MARCH 3, 1849

UNITED STATES
DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT NJ-71-2

Prepared in cooperation with the State of New Jersey
and with other agencies

I

Prepared in cooperation with

State Department of Enviromental Protection
State Department of Agriculture
Delaware River Basin Commission
Corps of Engineers, U.S. Army
Environmental Protection Agency

Water resources records, 1971 for New Jersey are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for New Jersey
   Part 1. Surface Water Records

2. Water Resources Data for New Jersey
   Part 2. Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
P.O. Box 1238
Room 420, Federal Building
Trenton, New Jersey 08607

1972

CONTENTS

	Page
List of water-quality stations, in downstream order, for which records are published	IV
Introduction	1
Cooperation	2
Definition of terms	3
Special networks and programs	7
Downstream order and station number	8
Well number	8
Collection and examination of data	9
Solutes	10
Temperature	12
Sediment	12
Water-quality conditions	13
Water-supply papers	16
Selected references	16
Surface-water quality records	18
Ground-water quality records	260
Index	271

ILLUSTRATIONS

		Page
Figure 1.	Map of New Jersey showing number and distribution of surface-water quality stations	VII
2.	Map of New Jersey showing number and distribution of ground-water quality stations	VIII
3.	Well location system	9
4.	Water-quality conditions - 1971 water year	14

TABLES

		Page
Table 1.	Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter	5
2.	Degrees Celsius (°C) to degrees Fahrenheit (°F)	11
3.	Water-supply paper numbers and parts, water years 1945-68	16

WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

[*Letters after station name designate type of data: (c) chemical, (t) water temrerature, (s) sediment*]

Page

HUDSON RIVER BASIN

Analyses of samples collected at water-quality partial-record stations (cs)........ 18

HACKENSACK RIVER BASIN

Hackensack River at Hackensack (c)........ 20
Analyses of samples collected at water-quality partial-record stations (cs)........ 22

PASSAIC RIVER BASIN

Passaic River at Two Bridges (ct)........ 25
Pequannock River:
Wanaque River at Wanaque (ct)........ 33
Ramapo River near Mahwah (c)........ 35
Pompton River at Two Bridges (ct)........ 37
Passaic River at Little Falls (ct)........ 45
Passaic River at Harrison (c)........ 48
Analyses of samples collected at water-quality partial-record stations (cs)........ 50

ELIZABETH RIVER BASIN

Analyses of samples collected at water-quality partial-record stations (c)........ 56

RARITAN RIVER BASIN

South Branch Raritan River near High Bridge (cts)...... 58
Spruce Run at Clinton (t)........ 63
South Branch Raritan River at Stanton (cts)........ 65
Raritan River at Technicon site 1, at Manville (c)..... 70
Raritan River near Manville (ct)........ 72
Millstone River near Manville (ct)........ 81
Raritan River at Technicon site 2, near Manville (c)... 90
Raritan River at Technicon site 3, at South Bound Brook (c)........ 92
Raritan River near South Bound Brook (ct)........ 94
Analyses of samples collected at water-quality partial-record stations (cs)........ 103

ATLANTIC COAST BASINS (between Raritan Bay and Delaware River)

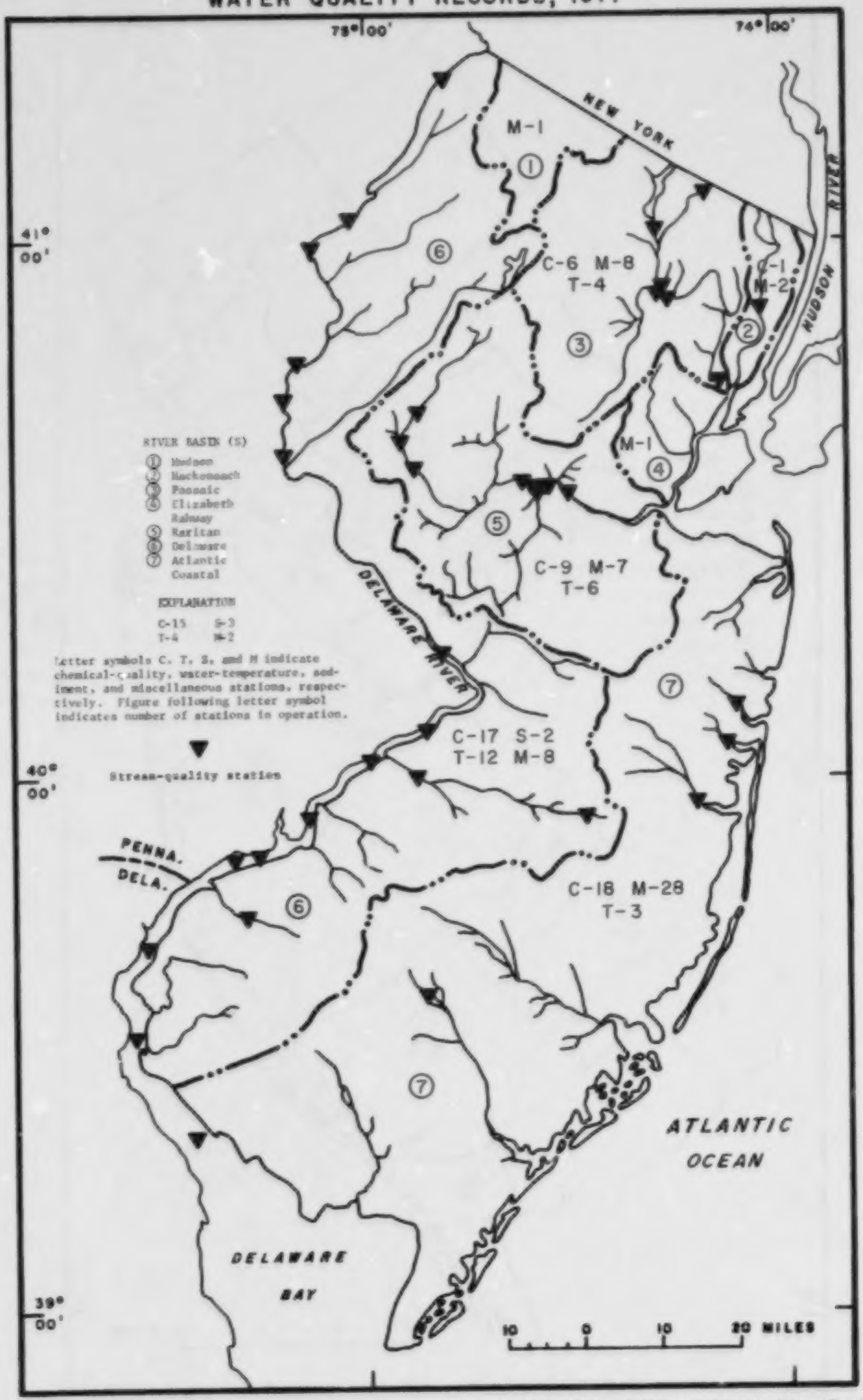
Manasquan River at Elton (c)........ 108
Manasquan River at Georgia Road, near Georgia (c)...... 109
Debois Creek at Wyckoff Mills (c)........ 110
Manasquan River at Wyckoff Mills (c)........ 112

Page
ATLANTIC COAST BASINS (between Raritan Bay and Delaware River).--Continued
Manasquan River at Fairfield (c)........................ 113
  Manasquan River tributary No. 7 near Farmingdale (c) 114
Manasquan River at Farmingdale (c)..................... 116
  Manasquan River tributary near Farmingdale (c)...... 117
  Marsh Bog Brook at Squankum (c)...................... 118
Manasquan River at Squankum (cts)...................... 120
  Mingamahone Brook at Squankum (c).................... 129
  Squankum Brook at Lower Squankum (c)................. 130
Manasquan River at Allenwood (c)....................... 131
Manasquan River at Squankum-Allenwood Road, at Allenwood (c)..................................... 133
Metedeconk River at Laurelton (c)...................... 134
Toms River at Toms River (c)........................... 136
Great Egg Harbor River at Folsom (cts)................. 138
Delaware Bay at Ship John Shoal Lighthouse (ct)....... 143
Analyses of samples collected at water-quality partial-record stations (c)...................... 146

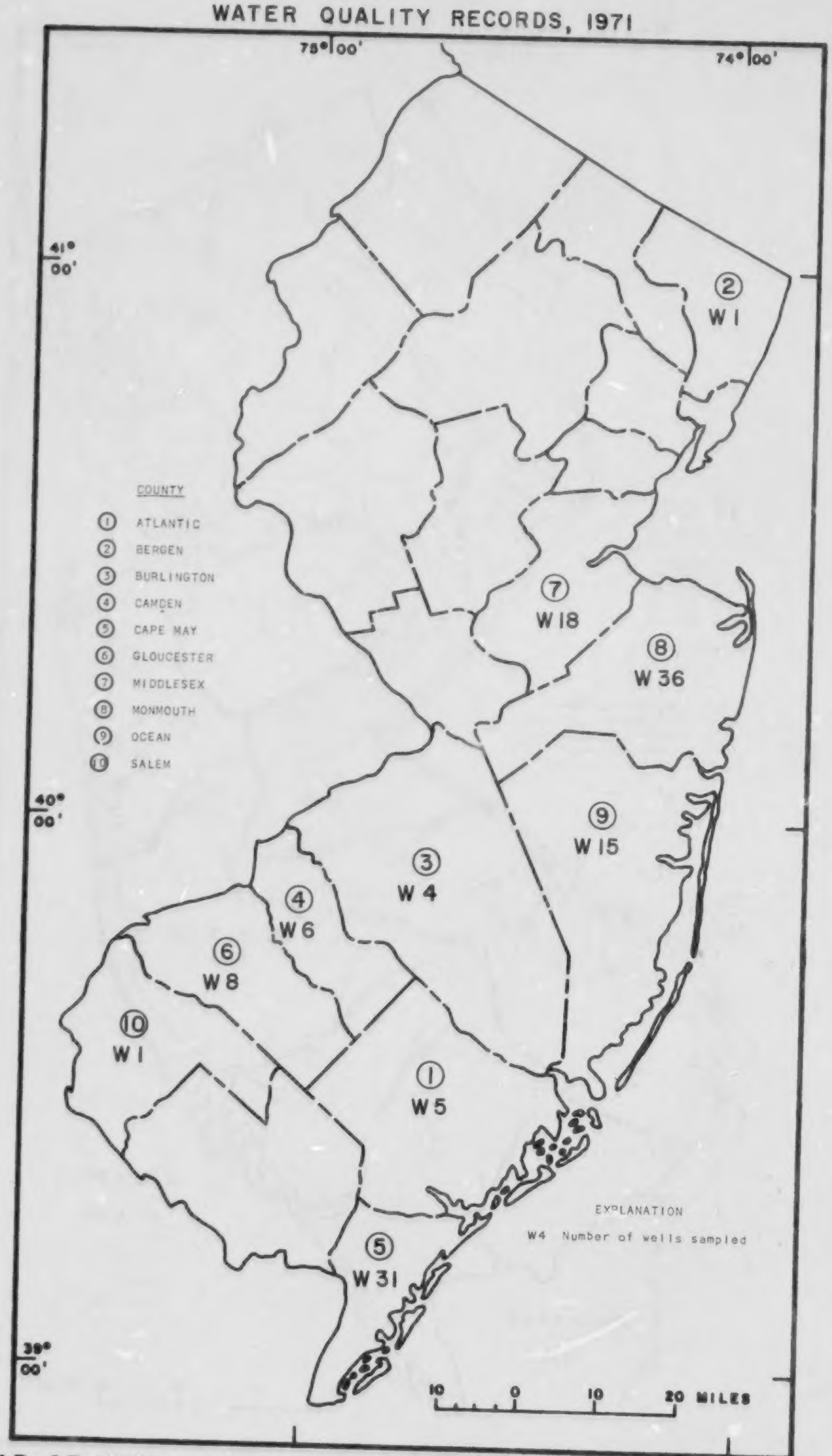
DELAWARE RIVER BASIN

Delaware River at Montague (c)......................... 158
Delaware River near East Stroudsburg, Pa. (ct)........ 160
Delaware River at Dunnfield (cts)...................... 165
Delaware River near Martins Creek, Pa. (c)............ 169
Delaware River at Easton, Pa. (ct)..................... 171
Delaware River at Riegelsville (c)..................... 178
Delaware River at Trenton (cts)........................ 180
Delaware River at Bristol, Pa.-Burlington, N.J. Bridge (ct)............................... 191
  Rancocas Creek:
    South Branch Rancocas Creek:
      North Branch Rancocas Creek:
        Greenwood Branch:
          McDonalds Branch in Lebanon State Forest (cts).......................... 198
  Rancocas Creek at Willingboro (ct)................... 204
Delaware River at Torresdale Intake, at Philadelphia, Pa. (ct)........................... 212
Delaware River at Benjamin Franklin Bridge, at Philadelphia, Pa. (ct)........................... 219
Delaware River at Fort Mifflin, at Philadelphia, Pa. (c).. 226
Delaware River at Chester, Pa. (ct).................... 228
  Raccoon Creek near Swedesboro (cts).................. 235
Delaware River at Delaware Memorial Bridge, near Wilmington, Del. (ct)......................... 238

Page
DELAWARE RIVER BASIN--Continued
Delaware River at Reedy Island Jetty, Del. (c)........ 245
Analyses of samples collected at water-quality
partial-record stations (cs).................... 250
Analyses of miscellaneous sites in New Jersey (cs).... 258
Chemical analyses of ground water in New Jersey....... 260
  Atlantic County................................... 260
  Bergen County..................................... 260
  Burlington County................................. 261
  Camden County..................................... 262
  Cape May County................................... 263
  Gloucester County................................. 264
  Middlesex County.................................. 265
  Monmouth County................................... 266
  Ocean County...................................... 270
  Salem County...................................... 270


75°00'
74°00'
41° 00'
40° 00'
39° 00'
NEW YORK
HUDSON RIVER
M-1
①
⑥
C-6 M-8
T-4
③
C-1
M-2
②
M-1
④
⑤
C-9 M-7
T-6
DELAWARE RIVER
⑦
C-17 S-2
T-12 M-8
PENNA.
DELA.
⑥
C-18 M-28
T-3
⑦
ATLANTIC OCEAN
DELAWARE BAY
10 0 10 20 MILES
RIVER BASIN (S)
① Hudson
② Hackensack
③ Passaic
④ Elizabeth Rahway
⑤ Raritan
⑥ Delaware
⑦ Atlantic Coastal
EXPLANATION
C-15 S-3
T-4 M-2
Letter symbols C, T, S, and M indicate chemical-quality, water-temperature, sediment, and miscellaneous stations, respectively. Figure following letter symbol indicates number of stations in operation.
▼ Stream-quality station

MAP OF NEW JERSEY SHOWING NUMBER AND DISTRIBUTION
OF SURFACE-WATER QUALITY STATIONS
FIGURE I


75° 00'
74° 00'
41° 00'
40° 00'
39° 00'
COUNTY
① ATLANTIC
② BERGEN
③ BURLINGTON
④ CAMDEN
⑤ CAPE MAY
⑥ GLOUCESTER
⑦ MIDDLESEX
⑧ MONMOUTH
⑨ OCEAN
⑩ SALEM
② W 1
⑦ W 18
⑧ W 36
⑨ W 15
③ W 4
④ W 6
⑥ W 8
⑩ W 1
① W 5
⑤ W 31
EXPLANATION
W4 Number of wells sampled
10 0 10 20 MILES

MAP OF NEW JERSEY SHOWING NUMBER AND DISTRIBUTION OF GROUND-WATER QUALITY STATIONS

FIGURE 2

WATER RESOURCES DATA FOR NEW JERSEY, 1971

Part 2. Water Quality Records

INTRODUCTION

Water resources data for the 1971 water year for New Jersey include records of data for the chemical and physical characteristics of surface- and ground water. Data on the quality of surface water (chemical, temperature, and sediment) were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly or less frequently, and at some sites data were recorded on punched paper tape at 60-minute intervals. Records are given for 116 sampling stations of which 51 are continuous record stations, 55 are partial-record stations, and 10 are miscellaneous sites. Records of chemical analyses also are given for 125 ground-water sites. Locations of surface water-quality stations are shown in Figure 1 and locations of ground-water sites are shown in Figure 2. A few pertinent stations in bordering States are also included. The records were collected by the Water Resources Division of the U.S. Geological Survey under the direction of J. E. McCall, district chief and P. W. Anderson, district coordinator. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in New Jersey.

The Geological Survey has published records of chemical quality, water temperatures, and sediment in New Jersey since 1945 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records have been released by the Geological Survey in annual reports on a State-boundary basis. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year. These records will be published later in Geological Survey water-supply papers.

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreement with the following organizations:

State Department of Enviromental Protection, Richard J. Sullivan, commissioner.
  Division of Water Resources, Charles M. Pike, director.
  Division of Fish, Game and Shellfisheries, Russell A. Cookingham, director.
State Department of Agriculture, Philip Alampi, secretary.
  Division of Rural Resources, Francis A. Raymaley, director.
Delaware River Basin Commission, James F. Wright, executive director.

Assistance in the form of funds was given by the Corps of Engineers, U.S. Army for the collection of sediment records at two stream-sampling stations and by the Environmental Protection Agency for the collection of chemical analyses at eight stream-sampling stations in this report. In addition, several stations were operated fully or partially from funds appropriated directly to the Geological Survey. The assistance of the Passaic Valley Water Commission and the North Jersey District Water Supply Commission in providing basic records is gratefully acknowledged in the station headings.

Basic water-quality data collected at many sampling stations on the main stem of the Delaware River and estuary--an interstate stream--included in this report were collected in cooperation with the following additional agencies:

City of Philadelphia Water Department, Samuel S. Baxter, commissioner and chief engineer.
Pennsylvania Department of Environmental Protection, Maurice K. Goddard, secretary.
Delaware Geological Survey, J. J. Groot, State geologist.
Delaware River Master, Joseph V. B. Wells.

DEFINITION OF TERMS

Terms related to water-quality and hydrologic data, as used in this report are defined as follows:

Aquifer refers to the geologic formation, group of formations or part of a formation containing water in which a well is finished.

Bed material is the shifting portion of fragmented alluvial material of which the streambed is composed.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stablizing decomposable organic matter under aerobic conditions.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons, and represents a runoff of approximately 0.0372 inches from 1 square mile.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate or delayed incubation membrane filter method.

Cubic foot per second (cfs,CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

> Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.
>
> Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (cfs)."

Drainage area of a stream at a specified location is that area, measured in horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or body of impounded surface water together with all tributary surface stream and bodies of impounded surface water.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Micrograms per liter (µg/l,UG/L) is a unit expressing the concentration of chemical constituents in solution as weight (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (mg/l,MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1, page 5. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per liter of water-sediment mixture.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined either by sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling) (Guy, 1969).

Particle-size classification, used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay..........	0.00024 - 0.004	Sedimentation.
Silt..........	.004 - .062	Sedimentation.
Sand..........	.062 - 2.0	Sedimentation or sieve.
Gravel........	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis (Guy, 1969).

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per liter to milliequivalents per liter

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*...	0.11119	Iodide (I^{-1})......	0.00788
Ammonia as NH_4^{+1}...	.05544	Iron (Fe^{+3})*......	.05372
Barium (Ba^{+2})......	.01456	Lead (Pb^{+2})*......	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*...	.14411
Bromide (Br^{-1}).....	.01251	Magnesium (Mg^{+2})..	.08226
Calcium (Ca^{+2}).....	.04990	Manganese (Mn^{+2})*.	.03640
Carbonate (CO_3^{-2})..	.03333	Nickel (Ni^{+2})*....	.03406
Chloride (Cl^{-1})....	.02821	Nitrate (NO_3^{-1})...	.01613
Chromium (Cr^{+6})*...	.11539	Nitrite (NO_2^{-1})...	.02174
Cobalt (Co^{+2})*.....	.03394	Phosphate (PO_4^{-3}).	.03159
Copper (Cu^{+2})*.....	.03148	Potassium (K^{+1})...	.02557
Cyanide (CN^{-1})	.03844	Sodium (Na^{+1}).....	.04350
Fluoride (F^{-1}).....	.05264	Strontium (Sr^{+2})*.	.02283
Hydrogen (H^{+1}).....	.99209	Sulfate (SO_4^{-2})...	.02082
Hydroxide (OH^{-1})...	.05880	Zinc (Zn^{+2})*......	.03060

*Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Sediment is solid material that originates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times mg/l times 0.0027.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/l).

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream or from well to well, and it may even vary in the same source with changes in the composition of the water.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff." Streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the location of the thermograph or a digital mechanism that automatically records water temperature on paper tape.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD Stations provide indices of runoff and the general distribution of water in the principal river basins of the conterminous United States and Alaska.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each water-quality station, gaging station, and partial-record station has been assigned a station number. These are in the same dowstream order used in this report. In assigning station numbers, no distinction is made between partial-record and continuous-record stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 01463500 which appears just to left of the station name includes the 2-digit part number "01" plus the 6-digit downstream order number "463500." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain natural drainage lines. Records in this report are in Part 1 (North Atlantic slope basins). All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all in the basin.

WELL NUMBER

The well numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The number consists of 14 digits and one letter. The first 6 digits denote the degrees, minutes, and seconds of latitude followed by a letter denoting north or south. Seven digits following the letter denote degrees, minutes and seconds of longitude. The last digit is a sequential number for wells within a 1-second grid. The system provides the geographic location of the well and a unique number for each well. See Figure 1, below.

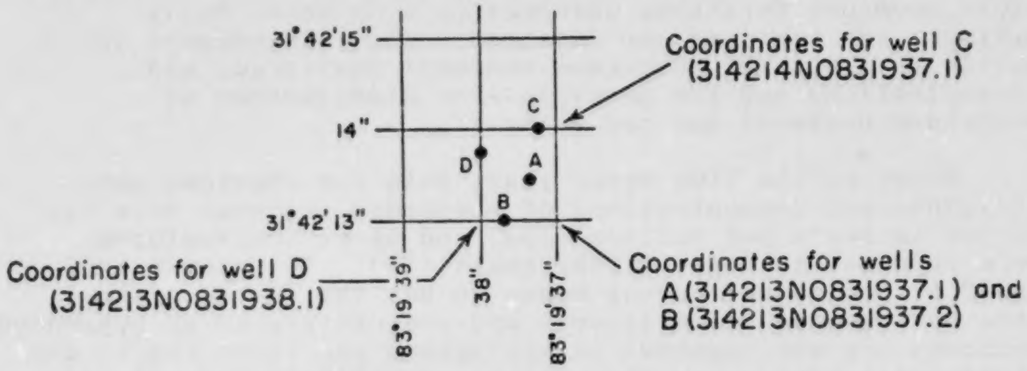

31°42'15"
Coordinates for well C
(314214N0831937.1)
C
14"
D
A
B
31°42'13"
Coordinates for well D
(314213N0831938.1)
83°19'39"
38"
83°19'37"
Coordinates for wells
A (314213N0831937.1) and
B (314213N0831937.2)

Figure 3.--Well location system.

COLLECTION AND EXAMINATION OF DATA

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads. Discharge records for streams in New Jersey have been released in the report, "Water Resources Data for New Jersey, 1971, Part 1. Surface Water Records."

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water sampling stations, no descriptive statements are given. However, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of ground water.

Water-quality information is presented for chemical quality, microbiological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, specific conductance, and pH. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnishes information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967, the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter (mg/l) and water temperatures are given in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per milliliter), parts per millions and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. To convert temperature in degrees Celsius to degrees Fahrenheit, see Table 2, page 11.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. (See "Definitions of Terms," p. 5.)

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge depending on the source of material and the turbulence and the mixing of the stream. Some must be sampled at several verticals across the channel to determine accurately the solute load.

Table 2.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

At chemical quality stations where monitors are installed, the records consist of daily maximum, minimum, and mean values for each consitituent measured. More detailed records (hourly values) may be obtained from the district office of the U.S. Geological Survey at the address given on page II of this report.

Ground-water does not change significantly during short period of time; infrequent sampling and analysis of ground water adequately defines ground-water quality at a given site. Water samples from wells are analyzed individually.

Temperature

Water temperatures are measured at most of the water-quality stations. For daily stations, the water temperatures are taken at about the same time each day when sample is collected. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross-section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the sub-divided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the sub-divided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

WATER QUALITY CONDITIONS

Water-quality conditions, as reflected by dissolved-solids and dissolved-oxygen content, at four stream sampling sites are illustrated graphically on pages 14 and 15. These water-quality stations were selected for illustration because the sampling points are (1) near, but above the influence of tide, and (2) the available records are long term, systematic, and accurate. The variations in dissolved solids and dissolved oxygen from month to month during the 1971 water year (solid line) may be compared with the average (dashed line) for a base period (1961-1970) and with the maximum and minimum monthly values for a particular month recorded during the base period. Whenever the solid-line graph coincides with the maximum or minimum graphs (edge of stippling), it denotes the mean value for that month of the current water year was record-high or record-low. Records were collected at varying frequencies, ranging from continous recording to monthly sampling.

The accompanying graphs were prepared largely from data provided by the Passaic Valley Water Commission (Passaic), the Elizabethtown Water Company (Raritan), and the Toms River Chemical Corporation (Toms) to whom the compilers of this report are indebted.

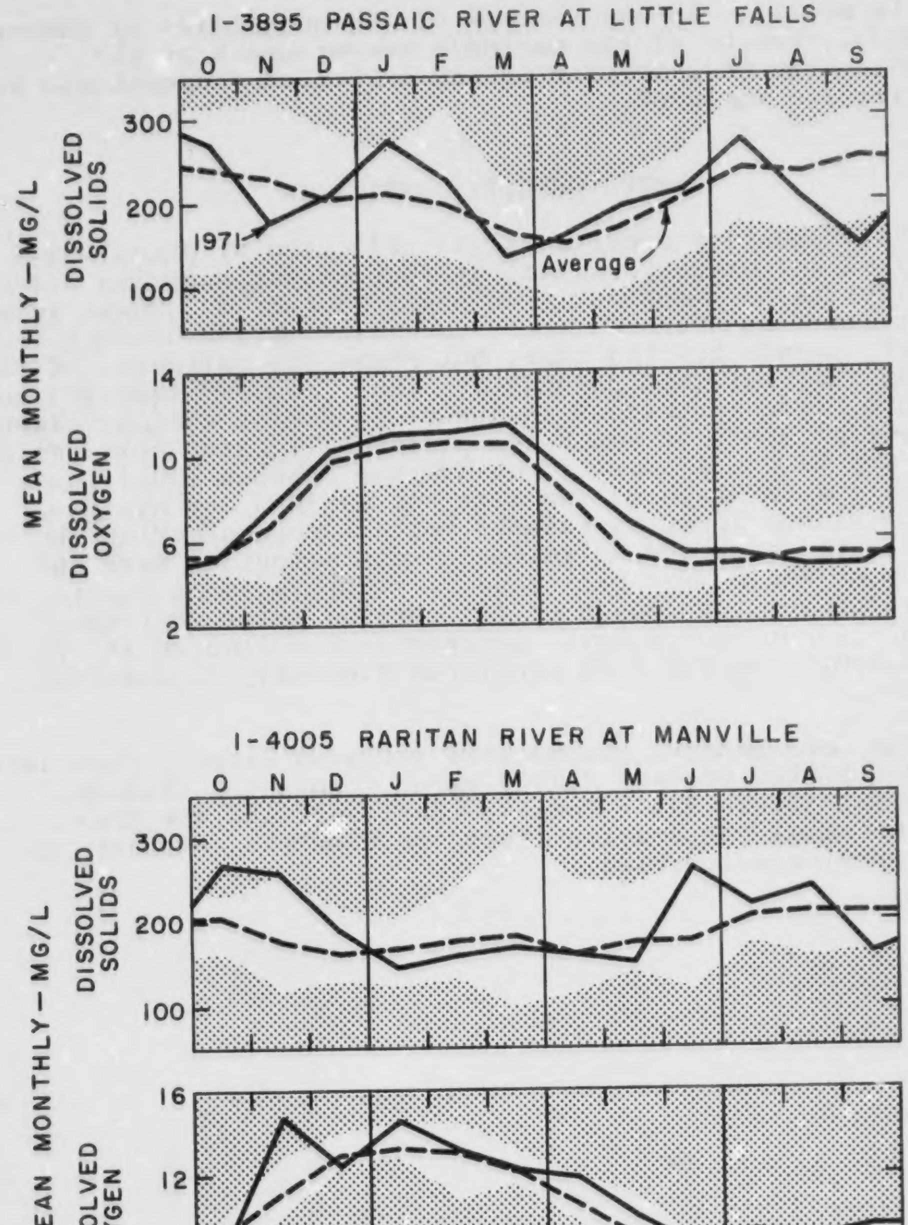
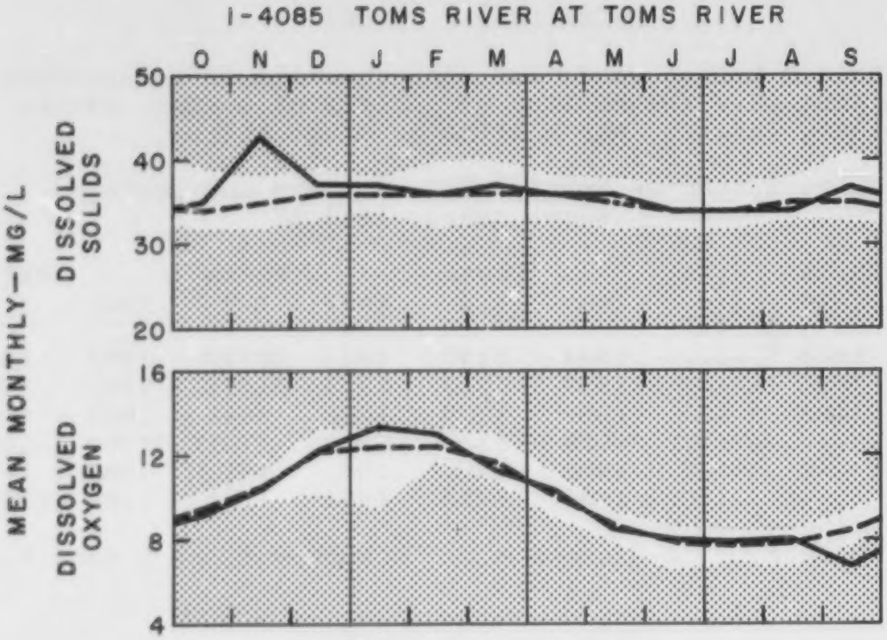


Figure 4.--Water-quality conditions, 1971 water year


1-4085 TOMS RIVER AT TOMS RIVER

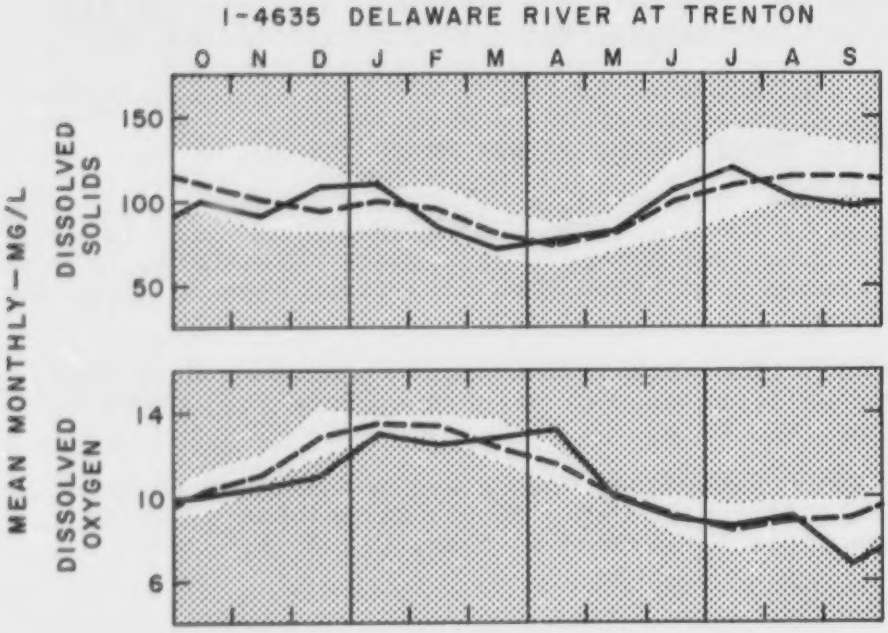

1-4635 DELAWARE RIVER AT TRENTON

Figure 4.--Water-quality conditions, 1971 water year--Continued

WATER-SUPPLY PAPERS

Table 3 below, shows the annual series of water-supply papers that give information on quality of surface waters in New Jersey, Part 1. North Atlantic slope basins.

Table 3.--Water-Supply paper numbers and parts, water years, 1945-68

Year	Parts 1-14	Parts 1-4	Year	Parts 1-4	Year	Parts 1-2	Year	Parts 1-2
1945	1030	----	1951	1197	1957	B1520	1963	1947
1946	1050	----	1952	1250	1958	B1571	1964	1954
1947	1102	----	1953	1290	1959	1641	1965	1961
1948	----	A1132	1954	1350	1960	1741	1966	1991
1949	----	A1162	1955	1400	1961	1881	1967	2011
1950	----	1186	1956	1450	1962	1941	1968	CD2091

A Parts 1-6. B Parts 1-4. C In press. D Part 1.

SELECTED REFERENCES

Anderson, P.W., 1970, Occurrence and distribution of trace elements in New Jersey streams: N.J. Div. of Water Policy and Supply, Water Resources Circ. 24, 24 p.

Anderson, P. W., and George, J. R., 1966, Water-quality characteristics of New Jersey streams: U.S. Geol. Survey Water-Supply Paper 1819-G, 48 p.

Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. A1, 160 p.

Guy, H. P., 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.

_____, 1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 57 p.

Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water- Resources Inv., book 3, chap. C2, 59 p.

Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water - Revised edition: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

Porterfield, George, 1972, Computation of fluvial-sediment discharge: Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C3, 179 p.

Seaber, P. R., 1963, Chloride concentrations of water from wells in the Atlantic Coastal Plain of New Jersey, 1923-61: N.J. Div. of Water Policy and Supply, Spec. Rept. 22, 250 p.

SURFACE-WATER QUALITY RECORDS

HUDSON RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

01368000 - WALLKILL RIVER NEAR UNIONVILLE, N.Y. (OWENS, NJ) (LAT 41 15 35 LONG 074 32 55)

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
DEC., 1970									
09...	116	--	--	--	37	12	--	18	--
MAR., 1971									
05...	707	6.3	--	--	28	6.2	10	--	1.5
MAY									
19...	281	5.0	--	91	33	10	10	--	1.3
JULY									
14...	30	--	--	--	41	21	--	15	--
AUG.									
30...	925	6.8	--	--	22	6.3	7.3	--	2.3
SEP.									
21...	260	8.5	230	100	33	9.5	11	--	2.2

01368000 - WALLKILL RIVER NEAR UNIONVILLE, N.Y. (OWENS, NJ) (LAT 41 15 35 LONG 074 32 55)

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
DEC., 1970									
09...	116	0	95	37	31	--	5.6	.19	--
MAR., 1971									
05...	73	0	60	24	23	.3	4.7	--	142
MAY									
19...	101	0	83	22	21	.2	2.8	.12	191
JULY									
14...	185	0	152	29	25	--	5.4	.30	--
AUG.									
30...	58	0	48	29	14	.1	1.8	--	--
SEP.									
21...	106	0	87	29	21	.1	3.1	.14	179

01368000 - WALLKILL RIVER NEAR UNIONVILLE, N.Y. (OWENS, NJ) (LAT 41 15 35 LONG 074 32 55)

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC., 1970								
09...	--	142	47	357	8.1	7	1.2	--
MAR., 1971								
05...	140	95	35	253	7.2	21	--	--
MAY								
19...	155	124	41	279	8.1	20	2.3	8.0
JULY								
14...	--	189	38	435	7.4	5	2.0	--
AUG.								
30...	118	80	33	201	7.0	--	--	--
SEP.								
21...	170	122	35	309	7.3	25	.8	8.5

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

01368000 - WALLKILL RIVER NEAR UNIONVILLE, N.Y. (OWENS, NJ) (LAT 41 15 35 LONG 074 32 55)

DATE	TIME	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
DEC., 1970							
09...	0900	.4	--	350	--	13.0	400
MAY , 1971							
19...	1130	18.5	--	300	7.7	6.8	380
JULY							
14...	1330	24.6	--	440	7.8	6.8	220
AUG.							
30...	1130	20.5	30.0	--	--	--	--
SEP.							
21...	1530	20.0	--	280	6.9	7.7	20

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

01368000 - WALLKILL RIVER NEAR UNIONVILLE, NY (OWENS, NJ) LAT 41 15 35 LONG 074 32 55)

DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
JUL 14, 1971	1330	30	26	2.1					

01378570 HACKENSACK RIVER AT HACKENSACK, N. J.

LOCATION.--Lat 40°52'45", long 74°02'25", Bergen County, at Court Street bridge in Hackensack.
DRAINAGE AREA.--128 sq mi, approximately.
PERIOD OF RECORD.--Chemical analyses: June 1970 to September 1971.
REMARKS.--Operated as part of the USGS-EPA Surveillance Network.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	NITRATE (NO3) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLOROPHYLL A (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
OCT. 13...	12	.6	--	--	2.6	8.0	9.3	.12	17200	7.1	3	--
NOV. 17...	5.0	2.8	--	--	1.1	17	17	.05	8330	7.0	30	--
DEC. 15...	9.3	3.8	--	--	2.1	14	7.9	.09	9350	7.3	45	--
JAN. 19...	6.5	7.8	--	--	.890	8.0	.7	.22	6040	7.2	15	--
FEB. 23...	5.6	7.3	--	--	.630	10	8.5	.06	1580	7.2	50	--
MAR. 16...	2.3	6.5	--	--	.750	16	9.6	.19	1040	7.4	55	--
APR. 27...	8.9	4.8	--	--	1.4	14	14	.09	4780	7.3	35	--
MAY 25...	18	.9	--	--	2.1	14	4.6	.12	4430	7.0	20	--
JUNE 29...	5.8	2.1	--	--	1.3	16	64	.11	5000	7.4	32	--
JULY 26...	5.2	16	--	--	1.3	16	95	.10	8570	7.1	14	--
AUG. 25...	6.8	1.9	2.5	4.3	1.3	19	83	.08	7240	7.3	18	40
SEP. 28...	4.6	4.0	--	--	.280	10	8.7	.01	461	6.7	24	--

DATE	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)
OCT. 27...	--	--	--	--	--	--	--	--	--	--
AUG. 25...	190	160	340	85	143	1460	146	0	20	415

DATE	CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)
OCT. 27...	--	--	--	--	--	--	--	--	--
AUG. 25...	2430	4720	46	801	681	11	38	9	.01

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT. 27...	0	0	--	0	0	--	7	.1	40
AUG. 25...	2	--	3	--	--	30	0	--	28

01378570 HACKENSACK RIVER AT HACKENSACK, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTA-CHLOR (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)
AUG. 25...	.00	.01	.00	.00	.04	.01	.00	.00	.00	.00	.00	.00
SEP. 28...	.00	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00

DATE	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG. 25...	.00	.00	.00	.02	.10	.04	<14	1.2	63	3.5	51	3.1
SEP. 28...	.00	.00	.00	.07	.05	.02	--	--	--	--	--	--

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DEPTH (FT)	PER-CENT OF TOTAL DEPTH	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT. 13...	0845	13	50	24.1	18.8	--	8.4	.6	--	--
NOV. 17...	0915	10	50	10.4	4.0	9600	--	3.8	510000	5800
DEC. 15...	0830	11	50	6.6	4.2	--	--	5.8	17500	720
JAN. 19...	0815	7.0	50	.0	--	--	7.3	7.8	3380	80
FEB. 23...	1100	7.0	50	4.4	9.0	1500	6.7	8.0	18000	3040
MAR. 16...	1000	10	50	8.6	18.0	1050	8.0	6.2	79000	5800
APR. 27...	1200	12	50	15.5	16.0	5500	8.0	3.2	39000	1450
MAY 25...	1045	8.0	50	23.8	30.2	4000	7.2	1.4	25000	2550
JUNE 29...	1030	8.0	50	26.1	26.8	5050	7.2	4.8	--	362
JULY 26...	1100	10	50	28.1	26.2	6500	6.8	2.6	200000	23000
AUG. 25...	1300	10	50	26.8	26.6	7000	7.4	5.8	2000	0
SEP. 28...	0930	8.0	50	18.0	16.6	410	6.7	3.4	62000	5000

HACKENSACK RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

01377000 - HACKENSACK R AT RIVERVALE NJ (LAT 40 59 55 LONG 073 59 27)

DATE	DIS- CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO- TAS- SIUM (NA+K) (MG/L)	PO- TAS- SIUM (K) (MG/L)
DEC., 1970 10...	68	--	--	--	34	7.7	--	19	--
APR., 1971 27...	43	2.3	70	140	31	6.3	40	--	2.7
JULY 14...	153	--	--	--	34	6.9	--	34	--
SEP. 28...	55	6.1	50	110	30	5.7	17	--	2.9

01378500 - HACKENSACK R AT NEW MILFORD NJ RESERVOIR (LAT 40 56 52 LONG 074 01 34)

DATE	DIS- CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO- TAS- SIUM (NA+K) (MG/L)	PO- TAS- SIUM (K) (MG/L)
DEC., 1970 10...	.00	--	--	--	40	8.9	--	18	--
APR., 1971 27...	15	5.9	30	15	33	7.0	34	--	4.4
JULY 14...	.00	--	--	--	34	7.6	--	30	--
SEP. 28...	13	6.6	150	160	29	5.6	15	--	2.8

01377000 - HACKENSACK R AT RIVERVALE NJ (LAT 40 59 55 LONG 073 59 27)

DATE	HICAR- HONATE (HCO3) (MG/L)	CAR- HONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
DEC., 1970 10...	88	0	72	36	33	--	11	.06	--
APR., 1971 27...	80	0	66	32	69	.1	6.2	.00	256
JULY 14...	89	0	73	26	61	--	1.5	.08	--
SEP. 28...	74	0	61	29	30	.0	5.6	.08	189

01378500 - HACKENSACK R AT NEW MILFORD NJ RESERVOIR (LAT 40 56 52 LONG 074 01 34)

DATE	HICAR- HONATE (HCO3) (MG/L)	CAR- HONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
DEC., 1970 10...	102	0	84	41	31	--	7.9	.14	--
APR., 1971 27...	76	0	62	49	60	.3	7.0	.00	272
JULY 14...	87	0	71	30	55	--	2.4	.05	--
SEP. 28...	67	0	55	29	26	.1	8.4	.12	184

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01377000 - HACKENSACK R AT RIVERVALE NJ (LAT 40 59 55 LONG 073 59 27)								
DEC., 1970 10...	--	117	45	343	7.2	5	2.8	--
APR., 1971 27...	229	104	38	447	7.1	4	3.0	7.5
JULY 14...	--	114	41	405	6.9	7	2.2	--
SEP. 28...	163	99	38	301	7.3	20	1.6	7.0
01378500 - HACKENSACK R AT NEW MILFORD NJ RESERVOIR (LAT 40 56 52 LONG 074 01 34)								
DEC., 1970 10...	--	137	53	366	8.0	10	1.0	--
APR., 1971 27...	238	112	49	448	7.3	3	1.0	6.5
JULY 14...	--	117	45	400	7.3	10	2.2	--
SEP. 28...	156	96	41	284	7.4	15	2.6	7.0

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
01377000 - HACKENSACK R AT RIVERVALE NJ (LAT 40 59 55 LONG 073 59 27)											
SEP., 1971 28...	19	60	<0.8	<4	47	<17	<4	<2	7	<2	<4

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
01377000 - HACKENSACK R AT RIVERVALE NJ (LAT 40 59 55 LONG 073 59 27)											
SEP., 1971 28...	<4	<10	3	<4	<0.4	140	<4	<4	<2.0	<170	<8

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

01377000 - HACKENSACK R AT RIVERVALE NJ (LAT 40 59 55 LONG 073 59 27)

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
DEC., 1970 10...	0845	2.1	300	8.4	12.4	200
APR., 1971 27...	0945	9.7	465	7.3	10.4	94
JULY 14...	0900	24.3	360	8.4	6.6	1000
SEP. 28...	1000	1.8	240	7.6	7.8	6200

01378500 - HACKENSACK R AT NEW MILFORD NJ RESERVOIR (LAT 40 56 52 LONG 074 01 34)

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
DEC., 1970 10...	0930	3.7	310	8.6	11.2	0
APR., 1971 27...	0900	10.9	440	6.8	10.8	--
JULY 14...	1000	24.5	360	8.9	5.4	900
SEP. 28...	1100	19.1	230	7.4	6.6	4600

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

01377000 - HACKENSACK R AT RIVERVALE NJ (LAT 40 59 55 LONG 073 59 27)

DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
OCT 22, 1970	0900	61	46	7.6	JUL 30......	0845	40	44	4.8
FEB 23, 1971	0950	88	38	9.0	JUL 30......	1330	44	44	5.2
FEB 23......	1415	78	19	4.0	SEP 13......	1100	66	65	12
APR 6......	1220	66	6	1.1	SEP 13......	1500	64	30	5.2
JUL 14......	0900	155	13	5.4					

01382000 PASSAIC RIVER AT TWO BRIDGES, N.J.

LOCATION.--Lat 40°53'50", long 74°16'23", Passaic County, water-quality recorder at partial-record gaging station at bridge on Two Bridges Road, just above Pompton River, and 0.3 mile northeast of Two Bridges.

DRAINAGE AREA.--361 sq mi.

PERIOD OF RECORD.--Chemical analyses: June 1963 to September 1965, water years 1966-68 (partial-record station), July 1969 to September 1971.

Water temperatures: October 1962 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum, 773 micromhos Oct. 10; minimum, 116 micromhos Sept. 2.

Dissolved oxygen: Maximum, 12.3 mg/l Mar. 28; minimum, 0.1 mg/l July 7-8, Aug. 9.

Water temperatures: Maximum, 27.5°C July 9-10; minimum, freezing point on several days during winter months.

pH: Maximum, 7.3 Oct. 11,13, Nov. 5; minimum, 5.1 Aug. 30.

Period of record:

Specific conductance (1969-71): Maximum, 1,230 micromhos Sept. 15, 1970; minimum, 116 micromhos Sept. 2, 1971.

Dissolved oxygen (1969-71): Maximum, 12.6 mg/l Apr. 4, 1970; minimum, 0.0 mg/l on several days in June 1970.

Water temperatures: Maximum, 28.0°C July 28, 1963, July 16, 18-19, 1968, July 29, 1970; minimum, freezing point on many days during winter months.

pH (1969-71): Maximum, 7.7 Oct. 4-5, 1969; minimum, 5.1 Aug. 30, 1971.

REMARKS.--Missing continuous water-quality records are primarily due to malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	POTASSIUM (K) (MG/L)
OCT. 15...	19	60	50	32	11	67	--	7.0
NOV. 16...	--	--	--	19	6.1	--	16	--
DEC. 10...	--	--	--	30	10	--	42	--
JAN. 15...	--	--	--	28	9.5	--	40	--
FEB. 26...	--	--	--	14	4.5	--	18	--
MAR. 30...	--	--	--	22	6.6	--	29	--
APR. 20...	9.7	260	150	19	7.0	25	--	2.5
MAY 20...	--	--	--	20	6.0	--	23	--
JUNE 30...	--	--	--	35	11	--	71	--
JULY 21...	11	60	145	21	6.8	32	--	4.6
AUG. 18...	--	--	--	32	10	--	57	--
SEP. 22...	11	740	50	13	4.2	13	--	3.4

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT. 15...	96	0	79	54	71	.4	46	14	369
NOV. 16...	29	0	24	44	22	--	8.8	1.3	--
DEC. 10...	72	0	59	58	48	--	26	5.3	--
JAN. 15...	59	0	48	53	55	--	20	3.4	--
FEB. 26...	26	0	21	27	28	--	5.9	.52	--
MAR. 30...	47	0	39	38	37	--	20	2.2	--
APR. 20...	49	0	40	40	37	.3	8.5	1.3	211
MAY 20...	47	0	39	37	30	--	6.0	1.7	--
JUNE 30...	111	0	91	62	75	--	32	8.6	--
JULY 21...	49	0	40	42	39	.2	20	2.1	235
AUG. 18...	97	0	80	63	55	--	27	4.7	--
SEP. 22...	42	0	34	21	14	.2	2.8	.66	123

01382000 PASSAIC RIVER AT TWO BRIDGES, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 15...	355	125	47	588	7.8	15	4.4	--
NOV. 16...	--	73	49	246	6.7	40	2.0	--
DEC. 10...	--	116	57	444	7.5	10	5.2	--
JAN. 15...	--	109	61	429	7.6	5	6.0	--
FEB. 26...	--	54	32	219	6.9	17	1.4	--
MAR. 30...	--	82	44	308	6.8	10	3.4	--
APR. 20...	173	77	37	317	7.3	10	4.5	7.0
MAY 20...	--	74	36	272	6.6	30	>9.0	--
JUNE 30...	--	133	42	604	6.6	15	>8.0	--
JULY 21...	201	81	41	355	6.6	5	8.0	9.5
AUG. 18...	--	121	42	531	7.0	8	5.3	--
SEP. 22...	82	52	17	168	6.5	80	--	11

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 15...	1515	19.0	600	7.4	2.4	2000
NOV. 16...	1400	9.0	250	7.4	4.6	3000
DEC. 10...	1215	3.3	370	8.2	7.8	188
JAN. 15...	0915	.4	420	7.3	10.2	210
FEB. 26...	0915	1.7	208	6.9	10.4	50
MAR. 30...	0930	7.0	325	7.4	9.0	4200
APR. 20...	1445	15.8	340	7.3	6.6	19500
MAY 20...	1330	19.0	270	6.2	2.9	275
JUNE 30...	1130	25.0	590	6.7	.4	--
JULY 21...	1100	22.4	340	6.6	.4	1400
AUG. 18...	1000	23.7	510	6.7	1.0	125
SEP. 22...	1315	19.0	180	6.0	2.2	--

01382000 PASSAIC RIVER AT TWO BRIDGES, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	618	566	591	---	---	---	322	294	306	---	---	---
2	698	518	594	509	497	502	351	323	330	---	---	---
3	---	---	---	548	512	533	363	335	347	---	---	---
4	---	---	---	548	510	534	378	360	369	518	506	---
5	---	---	---	549	465	511	407	373	392	597	457	508
6	---	---	---	448	342	380	406	356	392	529	387	471
7	---	---	---	381	323	357	432	406	418	---	---	---
8	---	---	---	395	357	369	415	384	392	---	---	---
9	633	607	---	402	350	382	426	394	414	---	---	---
10	773	631	680	453	375	---	444	424	432	---	---	---
11	---	---	---	463	447	455	443	423	432	363	351	---
12	---	---	---	458	340	399	471	423	442	375	349	357
13	566	550	---	370	288	328	522	468	490	377	361	369
14	568	562	565	277	239	257	480	428	438	399	373	381
15	564	490	---	238	228	---	429	336	405	---	---	---
16	---	---	---	230	221	225	441	405	420	507	479	495
17	---	---	---	248	225	240	445	429	439	---	---	---
18	---	---	---	256	248	252	445	397	---	---	---	---
19	---	---	---	---	---	---	389	311	339	---	---	---
20	474	468	---	---	---	---	311	305	307	---	---	---
21	530	468	501	---	---	---	313	307	311	---	---	---
22	524	418	470	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	250	242	---	---	---	---	---	---	---
25	---	---	---	271	247	260	---	---	---	---	---	---
26	---	---	---	300	266	280	---	---	---	---	---	---
27	368	366	---	301	271	---	---	---	---	---	---	---
28	403	369	389	291	269	---	502	484	---	---	---	---
29	414	404	409	300	294	297	510	480	490	---	---	---
30	429	411	417	305	283	293	518	486	---	---	---	---
31	449	425	433	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	549	221	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	331	307	314	409	381	392
2	---	---	---	---	---	---	355	329	336	436	408	420
3	---	---	---	---	---	---	356	340	---	428	412	419
4	---	---	---	---	---	---	---	---	---	428	414	421
5	---	---	---	---	---	---	---	---	---	436	418	425
6	---	---	---	---	---	---	---	---	---	449	417	433
7	---	---	---	---	---	---	313	289	---	467	431	453
8	---	---	---	---	---	---	299	231	249	441	419	431
9	---	---	---	---	---	---	235	207	222	447	343	401
10	---	---	---	---	---	---	209	203	206	344	296	321
11	---	---	---	---	---	---	210	196	202	312	286	---
12	---	---	---	---	---	---	210	198	203	---	---	---
13	---	---	---	---	---	---	208	200	204	---	---	---
14	---	---	---	---	---	---	236	210	224	---	---	---
15	---	---	---	---	---	---	248	230	239	---	---	---
16	---	---	---	---	---	---	273	249	261	---	---	---
17	---	---	---	---	---	---	299	271	284	---	---	---
18	---	---	---	---	---	---	334	296	310	---	---	---
19	---	---	---	---	---	---	334	324	329	272	250	---
20	---	---	---	---	---	---	330	314	321	307	267	286
21	---	---	---	---	---	---	341	325	330	333	303	315
22	---	---	---	---	---	---	357	343	350	345	331	337
23	---	---	---	---	---	---	375	359	367	360	344	350
24	---	---	---	223	217	---	398	376	385	352	318	328
25	---	---	---	232	224	227	412	376	395	333	311	321
26	---	---	---	243	233	237	414	394	402	362	331	343
27	---	---	---	252	242	247	413	391	398	368	328	346
28	---	---	---	260	250	256	417	397	407	376	342	359
29	---	---	---	269	259	263	419	399	408	---	---	---
30	---	---	---	288	268	276	413	375	393	---	---	---
31	---	---	---	313	287	300	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	419	196	310	---	---	---

01382000 PASSAIC RIVER AT TWO BRIDGES, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	633	591	618	279	253	270	196	182	185
2	359	343	---	595	563	---	279	203	246	178	116	146
3	363	335	349	---	---	---	218	196	206	162	134	147
4	---	---	---	---	---	---	224	212	220	192	152	170
5	---	---	---	---	---	---	233	221	227	200	150	177
6	---	---	---	---	---	---	243	233	240	---	---	---
7	---	---	---	640	614	---	256	242	249	---	---	---
8	---	---	---	634	584	---	262	256	260	---	---	---
9	433	417	---	---	---	---	273	261	266	---	---	---
10	451	429	443	---	---	---	337	277	303	---	---	---
11	451	441	446	---	---	---	404	364	388	---	---	---
12	---	---	---	---	---	---	464	406	434	---	---	---
13	---	---	---	---	---	---	475	455	466	---	---	---
14	---	---	---	602	562	---	473	413	463	---	---	---
15	---	---	---	562	532	---	493	387	437	---	---	---
16	563	535	---	---	---	---	---	---	---	---	---	---
17	553	519	530	---	---	---	---	---	---	---	---	---
18	521	491	502	---	---	---	536	506	---	---	---	---
19	521	453	494	---	---	---	591	547	559	---	---	---
20	---	---	---	---	---	---	600	566	585	---	---	---
21	---	---	---	487	385	---	576	418	527	---	---	---
22	---	---	---	552	478	---	539	333	450	---	---	---
23	542	504	---	---	---	---	498	298	428	---	---	---
24	513	491	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	639	587	---	---	---	---
26	---	---	---	---	---	---	634	592	609	---	---	---
27	---	---	---	---	---	---	658	310	524	---	---	---
28	---	---	---	489	423	---	626	204	358	---	---	---
29	---	---	---	468	430	454	286	150	175	---	---	---
30	661	653	---	498	406	452	208	168	181	---	---	---
31	---	---	---	443	261	332	180	174	177	---	---	---
MONTH	---	---	---	---	---	---	658	150	356	---	---	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.1	0.4	0.7	---	---	---	6.4	5.8	6.1	---	---	---
2	1.0	0.4	0.6	1.1	0.8	0.9	6.4	5.9	6.2	---	---	---
3	---	---	---	1.1	0.6	0.8	6.2	5.5	5.9	---	---	---
4	---	---	---	1.1	0.5	0.7	6.0	5.3	5.6	9.0	8.7	---
5	---	---	---	2.3	1.2	1.5	6.1	2.8	4.2	9.7	9.0	9.3
6	---	---	---	2.6	1.9	2.1	7.9	5.1	7.0	10.8	9.7	10.3
7	---	---	---	2.5	0.5	1.8	8.2	7.4	7.7	---	---	---
8	---	---	---	2.5	0.5	1.2	8.6	8.1	8.2	---	---	---
9	1.4	0.4	---	2.2	0.6	1.2	8.2	7.8	8.0	---	---	---
10	1.9	0.3	0.9	2.9	1.1	---	8.0	5.3	7.2	---	---	---
11	1.9	0.4	0.9	2.6	2.0	2.4	7.2	6.7	6.9	9.8	9.7	---
12	1.9	0.4	0.9	2.4	1.6	2.0	7.4	6.9	7.1	9.9	9.7	9.7
13	2.3	0.6	1.1	3.5	1.8	2.7	8.6	7.6	8.2	10.1	9.9	9.9
14	2.4	0.6	1.3	---	---	---	9.2	8.6	8.9	10.2	9.9	10.1
15	1.8	1.0	1.2	---	---	---	9.0	6.9	8.2	---	---	---
16	1.6	0.9	1.2	---	---	---	9.2	9.0	9.1	10.0	9.5	9.7
17	1.1	0.7	0.9	5.0	4.8	---	9.5	9.2	9.3	---	---	---
18	1.5	0.8	1.1	5.3	5.0	5.2	10.2	9.7	---	---	---	---
19	2.2	1.2	1.6	5.5	5.3	5.4	10.3	10.1	10.2	---	---	---
20	1.9	0.9	1.6	---	---	---	10.2	10.0	10.1	---	---	---
21	1.6	1.0	1.2	---	---	---	10.1	9.2	9.6	---	---	---
22	2.3	1.3	1.7	5.8	5.5	---	---	---	---	---	---	---
23	1.7	0.9	1.3	5.9	5.8	---	---	---	---	---	---	---
24	1.1	0.7	1.0	7.3	6.0	6.6	---	---	---	---	---	---
25	1.1	0.6	0.9	7.4	6.8	7.0	---	---	---	---	---	---
26	---	---	---	7.4	4.0	5.8	---	---	---	---	---	---
27	1.2	1.0	---	7.0	3.8	---	---	---	---	---	---	---
28	1.5	1.1	1.3	---	---	---	10.0	9.9	---	---	---	---
29	1.6	1.2	1.4	6.6	5.9	6.4	10.0	9.2	9.8	---	---	---
30	1.6	1.3	1.5	6.1	5.9	6.0	9.8	8.2	---	---	---	---
31	1.7	0.7	1.1	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01382000 PASSAIC RIVER AT TWO BRIDGES, N. J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	9.9	9.3	9.6	4.4	3.9	4.2
2	---	---	---	---	---	---	9.3	8.7	9.1	4.4	3.8	4.0
3	---	---	---	---	---	---	8.6	8.0	---	4.0	3.2	3.5
4	---	---	---	---	---	---	---	---	---	4.0	3.3	3.6
5	---	---	---	---	---	---	---	---	---	4.0	3.5	3.7
6	---	---	---	---	---	---	---	---	---	3.7	2.7	3.2
7	---	---	---	---	---	---	9.1	8.3	---	2.9	2.3	2.7
8	---	---	---	---	---	---	9.5	8.9	9.2	2.4	2.2	2.3
9	---	---	---	---	---	---	9.0	8.8	8.9	3.5	2.3	3.0
10	---	---	---	---	---	---	8.8	8.2	8.4	5.3	3.9	4.8
11	---	---	---	---	---	---	9.1	8.0	8.5	5.3	3.6	4.7
12	---	---	---	---	---	---	9.4	7.9	8.6	3.5	2.1	3.0
13	---	---	---	---	---	---	9.8	8.2	9.0	2.7	1.7	2.2
14	---	---	---	---	---	---	10.0	8.5	9.2	4.2	2.3	2.9
15	---	---	---	---	---	---	10.4	9.5	9.9	4.9	4.3	4.7
16	---	---	---	---	---	---	10.2	9.8	10.0	4.9	4.2	4.6
17	---	---	---	---	---	---	10.1	9.3	9.7	4.8	4.4	4.5
18	---	---	---	11.2	11.0	---	9.1	7.5	8.5	4.8	4.0	4.5
19	---	---	---	11.1	10.5	10.8	8.4	7.0	7.7	4.0	2.9	3.5
20	---	---	---	10.6	10.2	10.4	7.7	6.4	7.3	2.9	2.1	2.6
21	---	---	---	11.0	10.3	10.6	6.2	5.0	5.7	2.1	1.7	1.9
22	---	---	---	11.2	10.4	10.8	5.1	4.5	4.8	2.1	1.6	1.9
23	---	---	---	11.3	9.7	10.6	5.0	4.2	4.7	2.2	1.9	2.1
24	---	---	---	11.0	9.8	10.5	4.5	3.0	3.9	2.8	2.0	2.5
25	---	---	---	11.9	10.6	11.1	4.3	3.5	3.9	2.3	1.7	2.1
26	---	---	---	11.9	11.4	11.6	4.3	2.5	3.7	1.7	1.2	1.4
27	---	---	---	12.2	12.0	12.1	5.4	4.1	4.5	1.3	0.7	1.0
28	---	---	---	12.3	11.5	11.8	4.3	4.0	4.2	1.3	1.0	1.2
29	---	---	---	11.7	10.5	11.2	4.0	3.3	3.6	1.2	0.8	1.0
30	---	---	---	11.1	10.2	10.7	4.1	3.6	3.9	0.8	0.6	0.7
31	---	---	---	10.5	9.7	10.1	---	---	---	0.9	0.5	0.7
MONTH	---	---	---	---	---	---	10.4	2.5	7.1	5.3	0.5	2.9

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.8	1.0	1.5	1.6	0.3	0.7	2.2	1.4	1.7	3.6	0.8	2.4
2	2.2	1.4	1.9	1.0	0.4	0.6	2.2	1.7	2.0	4.3	0.8	1.8
3	1.4	0.8	1.2	1.2	0.5	0.7	2.2	1.9	2.0	1.9	0.8	1.1
4	0.9	0.3	0.6	2.3	0.7	1.3	2.1	1.9	2.0	1.7	0.7	1.2
5	1.0	0.3	0.8	1.7	0.7	1.2	1.8	1.7	1.8	---	---	---
6	1.0	0.4	0.7	2.1	0.8	1.3	1.7	1.4	1.5	---	---	---
7	0.7	0.2	---	1.5	0.1	1.4	1.3	0.7	1.0	---	---	---
8	---	---	---	2.1	0.1	1.0	0.7	0.3	0.4	---	---	---
9	1.9	0.9	---	1.8	0.3	0.8	0.3	0.1	0.2	---	---	---
10	2.7	0.3	1.4	1.4	0.5	0.8	0.4	0.2	0.3	---	---	---
11	3.5	0.8	2.0	0.9	0.5	0.7	0.9	0.5	0.7	---	---	---
12	3.2	1.2	2.2	1.4	0.7	0.9	1.5	0.7	1.1	---	---	---
13	3.5	1.8	2.5	1.7	0.9	1.2	1.7	1.2	1.4	---	---	---
14	3.3	1.6	2.4	1.1	0.4	0.8	2.5	1.3	1.7	---	---	---
15	2.0	1.2	1.7	1.1	0.4	0.7	2.1	1.5	1.8	---	---	---
16	4.0	1.1	2.6	0.6	0.3	0.4	2.7	1.9	2.2	---	---	---
17	3.8	2.3	3.0	1.1	0.3	0.6	2.6	2.0	2.2	---	---	---
18	3.5	1.7	2.5	1.6	0.4	0.8	2.5	1.2	1.9	---	---	---
19	3.5	1.6	2.5	1.7	1.1	1.2	1.4	0.8	1.1	---	---	---
20	4.3	2.2	3.2	1.8	1.2	1.5	1.5	0.7	1.1	---	---	---
21	3.7	1.9	2.9	1.3	0.5	1.0	1.8	0.9	1.3	---	---	---
22	2.5	0.3	1.7	2.0	0.6	1.3	2.0	0.9	1.3	---	---	---
23	2.4	1.0	1.6	3.4	1.3	2.2	2.0	1.0	1.4	---	---	---
24	2.3	1.5	1.9	2.5	1.4	2.0	2.3	1.3	1.7	---	---	---
25	2.6	1.5	2.1	2.2	1.2	1.7	2.3	1.5	1.9	---	---	---
26	2.4	1.2	1.9	1.7	0.8	1.2	2.5	1.0	1.5	---	---	---
27	2.3	1.1	1.8	1.2	0.5	0.8	7.0	1.3	3.2	---	---	---
28	1.4	1.0	1.2	1.5	0.4	0.9	6.9	2.4	5.7	---	---	---
29	1.5	1.1	1.2	1.6	0.8	1.1	7.0	4.9	6.2	---	---	---
30	1.4	0.2	0.8	1.2	0.7	0.9	5.0	3.1	3.6	---	---	---
31	---	---	---	1.5	0.5	1.2	3.8	3.2	3.6	---	---	---
MONTH	4.3	0.2	1.8	3.4	0.1	1.1	7.0	0.1	1.9	---	---	---

01382000 PASSAIC RIVER AT TWO BRIDGES, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	15.0	16.0	12.5	10.0	11.0	7.5	6.5	7.0	---	---	---
2	16.0	13.5	15.0	11.5	11.0	11.5	8.0	7.0	7.5	---	---	---
3	19.5	14.5	16.0	12.5	11.5	12.0	8.5	7.0	8.0	---	---	---
4	17.0	14.5	15.5	12.0	11.5	11.5	9.0	7.5	8.0	0.5	0	---
5	---	---	---	12.0	11.0	11.5	7.0	5.0	6.0	1.0	0.5	0.5
6	---	---	---	11.5	9.5	10.5	5.5	3.5	5.0	1.0	0.5	1.0
7	---	---	---	11.0	8.5	9.5	4.5	2.5	3.5	---	---	---
8	---	---	---	12.5	8.5	9.5	2.5	1.5	2.0	---	---	---
9	16.5	16.0	---	12.0	8.0	9.5	2.5	2.0	2.0	---	---	---
10	17.5	16.0	17.0	10.5	9.5	10.0	3.5	2.5	3.0	---	---	---
11	18.5	17.0	17.5	12.0	10.5	11.0	4.0	4.0	4.0	2.0	1.5	---
12	19.0	17.5	18.0	13.5	12.0	13.0	4.0	3.5	4.0	2.5	1.5	2.0
13	19.0	18.0	18.5	13.0	12.0	12.5	3.5	3.5	3.5	1.5	1.0	1.5
14	20.0	18.5	19.0	12.0	11.0	11.0	3.5	3.0	3.5	1.0	0.5	0.5
15	19.5	19.0	19.0	10.5	10.0	10.5	4.0	3.0	3.5	---	---	---
16	19.0	17.5	18.5	10.0	8.5	9.5	3.5	3.0	3.0	1.0	0	0.5
17	17.5	15.0	16.5	8.5	7.5	8.0	3.0	2.0	2.5	---	---	---
18	15.0	13.0	14.5	7.5	7.0	7.0	3.0	2.0	---	---	---	---
19	14.0	11.5	13.0	8.0	7.0	7.5	3.0	2.5	3.0	---	---	---
20	12.0	10.5	11.5	9.0	7.5	8.5	4.0	3.0	3.5	---	---	---
21	12.5	11.5	12.0	9.5	8.0	8.5	3.5	3.0	3.5	---	---	---
22	13.5	12.5	12.5	9.0	7.5	8.5	---	---	---	---	---	---
23	16.5	13.5	15.5	8.5	7.0	8.5	---	---	---	---	---	---
24	17.0	15.5	16.0	7.0	5.0	6.0	---	---	---	---	---	---
25	16.0	15.0	15.5	5.0	4.0	4.5	---	---	---	---	---	---
26	15.0	13.5	14.0	6.0	3.5	4.5	---	---	---	---	---	---
27	14.0	12.5	13.5	6.5	5.0	5.5	---	---	---	---	---	---
28	13.0	11.5	12.5	7.0	6.0	6.5	0.5	0	---	---	---	---
29	11.5	10.5	11.0	7.0	6.5	7.0	0.5	0	0	---	---	---
30	10.5	9.5	10.0	8.0	7.0	7.5	0.5	0	---	---	---	---
31	10.5	9.5	10.0	---	---	---	---	---	---	---	---	---
MONTH	20.0	9.5	15.0	13.5	3.5	9.0	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	8.5	6.5	7.5	12.5	11.0	12.0
2	---	---	---	---	---	---	9.5	7.5	8.5	12.5	12.0	12.5
3	---	---	---	---	---	---	9.5	8.5	---	13.0	12.0	13.0
4	---	---	---	---	---	---	---	---	---	13.0	12.0	12.0
5	---	---	---	---	---	---	---	---	---	14.0	11.5	13.0
6	---	---	---	---	---	---	---	---	---	14.5	13.5	14.0
7	---	---	---	---	---	---	6.5	5.5	---	16.5	14.0	15.0
8	---	---	---	---	---	---	7.0	5.0	6.0	15.5	14.5	15.0
9	---	---	---	---	---	---	8.5	6.0	7.5	14.5	13.0	14.0
10	---	---	---	---	---	---	10.0	8.5	9.5	14.0	12.0	13.0
11	---	---	---	---	---	---	10.5	8.0	9.0	16.5	13.0	15.0
12	---	---	---	---	---	---	12.0	9.5	10.5	17.5	15.5	16.5
13	---	---	---	---	---	---	13.5	11.0	12.0	17.5	15.5	16.5
14	---	---	---	---	---	---	13.5	12.0	13.0	16.0	14.5	15.0
15	---	---	---	---	---	---	12.0	10.5	11.0	16.0	14.0	15.0
16	---	---	---	---	---	---	10.5	9.0	10.0	15.0	14.0	14.5
17	---	---	---	---	---	---	10.5	8.0	9.5	15.5	13.5	14.5
18	---	---	---	6.5	6.0	---	12.0	9.5	11.0	18.0	15.0	16.5
19	---	---	---	6.0	5.0	5.5	13.0	10.5	12.0	19.0	17.0	18.0
20	---	---	---	5.5	4.5	5.0	14.5	12.0	13.5	19.5	18.0	19.0
21	---	---	---	5.5	4.5	5.0	14.5	13.5	14.0	19.0	17.5	18.0
22	---	---	---	6.0	4.5	5.0	14.0	13.0	13.5	17.5	16.5	17.0
23	---	---	---	7.0	5.5	6.0	13.5	12.5	13.0	17.5	15.5	16.5
24	---	---	---	6.0	5.0	5.5	13.5	12.5	13.0	17.0	15.5	16.5
25	---	---	---	5.0	3.5	4.5	13.0	11.5	12.5	17.5	16.0	17.0
26	---	---	---	5.0	4.5	4.5	12.0	10.5	11.5	18.5	17.5	18.0
27	---	---	---	6.0	4.0	5.0	12.0	10.5	11.5	18.5	18.0	18.0
28	---	---	---	7.0	5.0	6.0	12.0	11.5	11.5	18.0	17.0	17.5
29	---	---	---	8.0	6.5	7.0	12.0	11.0	11.5	18.5	17.0	17.5
30	---	---	---	8.0	6.5	7.5	11.5	11.0	11.5	18.0	17.5	17.5
31	---	---	---	8.5	6.5	7.5	---	---	---	18.0	17.5	17.5
MONTH	---	---	---	---	---	---	14.5	5.0	11.0	19.5	11.0	15.5

01382000 PASSAIC RIVER AT TWO BRIDGES, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	16.5	17.5	26.5	25.0	25.5	24.0	23.5	23.5	21.5	21.0	21.0
2	19.0	18.0	18.5	26.5	25.0	25.5	23.5	23.0	23.0	21.0	20.0	20.5
3	20.0	18.5	19.5	26.5	24.5	25.5	23.5	22.5	23.0	21.0	20.0	20.5
4	21.5	20.0	21.0	26.0	24.0	25.0	23.5	23.0	23.0	22.0	20.5	21.5
5	23.0	21.5	22.5	26.0	23.5	24.5	23.0	22.0	22.5	23.0	21.5	22.5
6	23.0	21.5	22.5	26.5	23.5	25.0	23.0	21.5	22.5	---	---	---
7	23.5	22.0	---	26.5	24.0	25.0	23.0	22.0	22.5	---	---	---
8	---	---	---	27.0	24.5	25.5	24.0	22.5	23.5	---	---	---
9	25.5	25.0	---	27.5	25.0	26.0	25.5	23.5	24.5	---	---	---
10	25.0	24.0	24.5	27.5	25.5	26.5	25.5	24.5	25.0	---	---	---
11	24.0	23.0	23.5	26.0	24.5	25.5	26.5	25.5	26.0	---	---	---
12	24.0	22.5	23.0	26.0	23.5	24.5	26.0	25.0	25.5	---	---	---
13	23.5	23.0	23.0	25.5	23.0	24.5	25.5	24.0	24.5	---	---	---
14	23.0	22.5	23.0	25.0	23.0	24.0	25.0	23.5	24.0	---	---	---
15	22.5	20.5	21.5	25.5	23.0	24.5	24.5	23.0	23.5	---	---	---
16	20.5	19.5	20.0	25.0	23.0	24.0	24.5	23.0	23.5	---	---	---
17	20.0	18.5	19.5	26.0	23.5	24.5	24.5	22.5	23.5	---	---	---
18	21.5	19.5	21.0	26.0	22.5	24.5	25.0	22.5	24.0	---	---	---
19	23.0	21.0	22.0	24.0	22.5	23.0	24.0	23.0	23.5	---	---	---
20	24.0	22.5	23.5	23.5	22.0	23.0	25.0	23.0	24.0	---	---	---
21	25.0	23.5	24.0	23.0	21.0	22.5	25.0	24.0	24.5	---	---	---
22	26.0	24.0	25.0	24.0	22.0	23.0	26.0	24.0	25.0	---	---	---
23	25.5	24.0	25.0	24.0	22.5	23.5	26.0	24.0	25.0	---	---	---
24	26.0	24.5	25.5	24.5	23.0	23.5	25.0	23.0	24.0	---	---	---
25	26.5	25.0	25.5	25.0	23.5	24.0	24.0	22.0	23.0	---	---	---
26	27.0	25.0	26.0	25.0	24.0	24.5	23.5	22.0	22.5	---	---	---
27	27.0	25.0	26.0	25.5	24.5	25.0	22.0	20.0	21.0	---	---	---
28	26.5	25.0	26.0	25.0	23.5	24.5	21.5	20.0	20.5	---	---	---
29	25.5	24.5	25.0	25.5	24.5	25.0	21.0	20.0	20.5	---	---	---
30	26.0	24.5	25.0	25.0	24.5	24.5	22.0	20.0	21.0	---	---	---
31	---	---	---	24.5	23.5	24.0	22.0	21.5	21.5	---	---	---
MONTH	27.0	16.5	23.0	27.5	21.0	24.5	26.5	20.0	23.5	---	---	---

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	7.0	7.0	6.7	6.7	6.7	7.0	6.7	6.9	---	---	---
2	7.0	7.0	7.0	6.8	6.8	6.8	6.8	6.7	6.7	---	---	---
3	7.2	7.1	7.1	7.2	6.8	7.1	6.8	6.6	6.7	---	---	---
4	7.2	7.1	7.1	7.2	7.2	7.2	6.8	6.7	6.7	6.8	6.8	---
5	---	---	---	7.3	7.2	7.2	6.8	6.7	6.7	6.9	6.8	6.9
6	---	---	---	7.2	7.0	7.1	6.9	6.7	6.8	7.0	6.8	6.9
7	---	---	---	7.1	7.0	7.0	6.8	6.8	6.8	---	---	---
8	---	---	---	7.1	6.9	7.0	7.0	6.8	6.9	---	---	---
9	7.1	7.1	---	7.0	7.0	7.0	7.0	6.9	6.9	---	---	---
10	7.2	7.1	7.1	7.0	6.9	7.0	7.0	6.9	6.9	---	---	---
11	7.3	7.2	7.2	7.0	7.0	7.0	7.0	6.9	7.0	6.5	6.2	---
12	7.2	7.2	7.2	7.0	7.0	7.0	7.0	7.0	7.0	6.7	6.4	6.5
13	7.3	7.2	7.2	7.0	6.8	6.9	7.0	7.0	7.0	7.0	7.0	7.0
14	7.2	7.2	7.2	6.8	6.7	6.8	7.0	6.9	7.0	6.8	6.7	6.7
15	7.2	7.2	7.2	6.9	6.7	6.8	7.0	6.9	6.9	---	---	---
16	7.2	7.2	7.2	6.8	6.6	6.7	7.0	6.9	7.0	6.9	6.8	6.9
17	7.2	7.1	7.1	6.7	6.6	6.7	7.0	6.9	6.9	---	---	---
18	7.1	7.1	7.1	6.8	6.7	6.7	6.9	6.8	6.8	---	---	---
19	7.1	7.1	7.1	6.8	6.7	6.7	6.8	6.7	6.7	---	---	---
20	7.1	7.0	7.0	6.8	6.7	6.8	6.7	6.7	6.7	---	---	---
21	7.0	7.0	7.0	7.1	6.8	6.9	6.8	6.7	6.8	---	---	---
22	7.0	7.0	7.0	6.9	6.8	6.9	---	---	---	---	---	---
23	7.0	6.6	6.8	6.9	6.9	6.9	---	---	---	---	---	---
24	6.6	6.5	6.5	7.0	6.9	7.0	---	---	---	---	---	---
25	6.5	6.5	6.5	7.0	6.9	7.0	---	---	---	---	---	---
26	6.6	6.5	6.5	7.0	6.8	6.9	---	---	---	---	---	---
27	6.6	6.5	6.6	6.9	6.8	6.9	---	---	---	---	---	---
28	6.7	6.6	6.6	7.0	6.8	6.9	6.9	6.5	---	---	---	---
29	6.7	6.7	6.7	7.0	6.9	6.9	7.0	6.8	6.9	---	---	---
30	6.8	6.7	6.7	7.0	6.9	6.9	6.9	6.8	---	---	---	---
31	6.8	6.7	6.7	---	---	---	---	---	---	---	---	---
MONTH	7.3	6.5	6.9	7.3	6.6	6.9	---	---	---	---	---	---

01382000 PASSAIC RIVER AT TWO BRIDGES, N. J.--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.4	6.3	6.3	6.6	6.5	6.6
2	---	---	---	---	---	---	6.4	6.1	6.3	6.6	6.6	6.6
3	---	---	---	---	---	---	6.4	6.4	---	6.6	6.6	6.6
4	---	---	---	---	---	---	---	---	---	6.7	6.6	6.6
5	---	---	---	---	---	---	---	---	---	6.7	6.6	6.6
6	---	---	---	---	---	---	---	---	---	6.7	6.6	6.6
7	---	---	---	---	---	---	6.6	6.3	---	6.7	6.6	6.6
8	---	---	---	---	---	---	6.6	6.2	6.4	6.7	6.6	6.6
9	---	---	---	---	---	---	6.4	6.0	6.2	6.6	6.5	6.6
10	---	---	---	---	---	---	6.3	6.2	6.2	6.6	6.5	6.5
11	---	---	---	---	---	---	6.4	6.0	6.2	6.7	6.6	6.6
12	---	---	---	---	---	---	6.4	6.1	6.3	6.6	6.5	6.5
13	---	---	---	---	---	---	6.5	6.2	6.4	6.5	6.5	6.5
14	---	---	---	---	---	---	6.6	6.3	6.5	6.5	6.4	6.5
15	---	---	---	---	---	---	6.5	6.4	6.4	6.5	6.4	6.4
16	---	---	---	---	---	---	6.5	6.4	6.5	6.4	6.4	6.4
17	---	---	---	---	---	---	6.5	6.4	6.5	6.4	6.3	6.4
18	---	---	---	6.9	6.8	---	6.5	6.4	6.4	6.4	6.3	6.4
19	---	---	---	6.9	6.8	6.8	6.4	6.4	6.4	6.4	6.3	6.3
20	---	---	---	6.8	6.7	6.7	6.5	6.4	6.5	6.3	6.2	6.2
21	---	---	---	6.7	6.5	6.7	6.5	6.5	6.5	6.2	6.2	6.2
22	---	---	---	6.7	6.4	6.6	6.6	6.5	6.5	6.4	6.3	6.3
23	---	---	---	6.8	6.5	6.7	6.7	6.6	6.6	6.4	6.4	6.4
24	---	---	---	7.0	6.7	6.8	6.7	6.6	6.7	6.4	6.4	6.4
25	---	---	---	7.1	6.8	6.9	6.8	6.6	6.7	6.4	6.4	6.4
26	---	---	---	7.0	6.9	7.0	6.8	6.7	6.8	6.5	6.4	6.4
27	---	---	---	6.9	6.7	6.8	6.9	6.8	6.9	6.5	6.4	6.4
28	---	---	---	6.9	6.5	6.7	6.9	6.6	6.7	6.5	6.4	6.4
29	---	---	---	6.7	6.4	6.6	6.6	6.5	6.6	6.5	6.5	6.5
30	---	---	---	6.6	6.4	6.5	6.6	6.6	6.6	6.5	6.5	6.5
31	---	---	---	6.6	6.2	6.4	---	---	---	6.6	6.5	6.5
MONTH	---	---	---	---	---	---	6.9	6.0	6.5	6.7	6.2	6.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	6.5	6.5	6.8	6.8	6.8	6.3	6.2	6.3	6.6	5.7	6.2
2	6.5	6.5	6.5	6.8	6.7	6.8	6.3	6.1	6.2	6.8	6.0	6.4
3	6.5	6.4	6.4	7.0	6.8	6.9	6.0	5.9	6.0	6.7	6.4	6.6
4	6.5	6.4	6.4	7.0	6.8	6.9	6.2	6.0	6.1	6.7	6.0	6.5
5	6.4	6.4	6.4	7.0	6.8	6.9	6.3	6.2	6.2	---	---	---
6	6.5	6.4	6.4	6.9	6.8	6.9	6.4	6.3	6.3	---	---	---
7	6.5	6.4	---	7.0	6.8	6.9	6.4	6.3	6.4	---	---	---
8	---	---	---	7.0	6.8	6.9	6.5	6.4	6.5	---	---	---
9	6.4	6.4	---	7.0	6.8	6.9	6.6	6.5	6.5	---	---	---
10	6.5	6.4	6.4	7.1	6.8	6.9	6.7	6.2	6.4	---	---	---
11	6.5	6.4	6.5	7.0	6.9	6.9	6.2	6.1	6.1	---	---	---
12	6.5	6.5	6.5	7.0	6.8	6.9	6.4	6.2	6.3	---	---	---
13	6.5	6.5	6.5	7.0	6.8	6.9	6.5	6.4	6.4	---	---	---
14	6.6	6.5	6.5	6.8	6.6	6.7	6.6	6.4	6.5	---	---	---
15	6.6	6.5	6.6	7.0	6.7	6.8	6.6	6.6	6.6	---	---	---
16	6.7	6.6	6.7	7.1	6.8	6.9	6.7	6.6	6.6	---	---	---
17	6.7	6.6	6.6	7.1	6.8	6.9	6.8	6.7	6.7	---	---	---
18	6.6	6.5	6.6	7.1	6.8	6.9	6.8	6.6	6.7	---	---	---
19	6.6	6.6	6.6	6.9	6.6	6.8	6.8	6.7	6.7	---	---	---
20	6.7	6.6	6.7	6.8	6.6	6.7	6.8	6.7	6.7	---	---	---
21	6.7	6.7	6.7	6.8	6.5	6.7	6.9	6.8	6.8	---	---	---
22	6.7	6.5	6.6	6.9	6.6	6.7	6.9	6.8	6.8	---	---	---
23	6.6	6.5	6.5	7.0	6.7	6.8	7.0	6.7	6.8	---	---	---
24	6.6	6.5	6.6	7.0	6.8	6.9	6.8	6.6	6.7	---	---	---
25	6.7	6.6	6.6	6.8	6.7	6.8	7.0	6.2	6.7	---	---	---
26	6.7	6.6	6.7	6.8	6.7	6.8	7.2	6.0	6.6	---	---	---
27	6.7	6.7	6.7	6.7	6.6	6.7	6.8	6.4	6.6	---	---	---
28	6.8	6.7	6.7	6.7	6.6	6.6	7.1	5.6	6.4	---	---	---
29	6.8	6.7	6.8	6.6	6.5	6.6	6.2	5.3	5.8	---	---	---
30	6.8	6.8	6.8	6.6	6.5	6.5	5.9	5.1	5.6	---	---	---
31	---	---	---	6.5	6.3	6.4	6.5	5.7	6.0	---	---	---
MONTH	6.8	6.4	6.6	7.1	6.3	6.8	7.2	5.1	6.4	---	---	---

01387000 WANAQUE RIVER AT WANAQUE, N. J.

LOCATION.--Lat 41°02'33", long 74°17'36", Passaic County, at gaging station at bridge on N.J. Route 511, 800 ft downstream from Raymond Dam in Wanaque.

DRAINAGE AREA.--90.4 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum daily, 23.0°C Aug. 27; minimum daily, 2.0°C on many days during winter months.
Period of record:
Water temperatures: Maximum daily, 24.5°C Aug. 19-20, 1965; minimum daily, 1.0°C Jan. 31, 1966.

REMARKS.--Once daily water-temperature records provided by North Jersey District Water Supply Commission. Miscellaneous samples of chemical data published for water years 1963-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
DEC. 10...	15	--	--	--	11	3.3	--	6.2	--
MAY 20...	49	2.8	--	16	9.0	2.8	4.9	--	.8
JULY 16...	18	--	--	--	8.3	2.5	--	6.9	--
SEP. 28...	56	7.9	760	200	10	2.8	5.7	--	1.8

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
DEC. 10...	26	0	21	19	8.5	--	1.2	.02	--
MAY 20...	18	0	15	18	8.1	.1	1.0	.01	76
JULY 16...	19	0	16	18	8.1	--	.6	.01	--
SEP. 28...	28	0	23	17	6.2	.0	2.1	.04	76

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CONDU-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 10...	--	41	20	126	7.2	1	.4	--
MAY 20...	56	34	19	102	7.4	3	1.7	5.5
JULY 16...	--	31	15	103	6.9	5	.5	--
SEP. 28...	67	37	14	101	7.1	50	1.0	8.5

01387000 WANAQUE RIVER AT WANAQUE, N. J.--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
DEC.						
10...	1345	6.9	125	8.3	11.4	16
MAY						
20...	1145	12.5	110	7.1	10.4	8
JULY						
16...	1030	15.5	85	7.0	9.4	148
SEP.						
28...	1230	17.2	100	7.2	8.2	2900

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE DAILY MEASUREMENT BETWEEN 0800 AND 1000)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	---	8.5	---	2.0	3.0	4.0	---	10.0	15.0	---	21.0
2	19.0	14.0	8.5	---	2.0	2.5	4.0	---	11.0	15.0	15.5	21.0
3	---	---	8.0	---	2.0	3.0	---	8.0	10.0	---	16.0	21.0
4	---	14.0	8.5	2.5	2.5	3.5	---	8.5	10.0	---	15.5	---
5	19.5	15.0	---	2.0	2.5	3.0	4.0	8.5	---	---	15.0	---
6	18.5	12.0	---	2.0	---	---	4.5	8.5	---	15.0	15.5	---
7	17.5	---	7.0	2.0	---	---	4.0	8.0	11.0	15.0	---	22.0
8	17.5	---	6.5	2.0	2.5	3.0	4.0	---	11.0	15.0	---	22.0
9	17.0	12.0	6.5	---	2.5	3.0	---	---	15.0	15.0	16.0	22.0
10	---	11.5	6.5	---	2.0	3.0	---	8.5	11.0	---	16.0	22.0
11	---	---	6.5	2.0	2.0	3.0	---	9.0	11.0	---	17.5	---
12	---	11.5	---	2.0	---	3.0	5.0	9.0	---	14.5	18.0	---
13	17.5	11.5	---	2.0	---	---	5.0	9.0	---	15.0	17.0	22.0
14	17.0	---	6.0	2.0	---	---	5.5	9.0	11.5	15.0	---	22.0
15	17.5	---	5.5	2.0	---	3.0	6.0	---	11.0	15.0	---	22.0
16	18.0	11.5	5.0	---	2.5	3.0	6.0	---	13.0	15.0	18.0	22.0
17	---	11.0	5.0	---	3.0	3.5	---	9.0	12.0	---	18.0	21.0
18	---	11.0	5.0	2.0	3.0	3.5	---	9.5	13.0	---	18.0	---
19	16.0	10.5	---	2.0	3.0	3.0	6.5	9.0	---	14.0	18.0	---
20	15.0	10.5	---	2.0	---	---	6.5	9.5	---	14.0	18.0	22.0
21	15.0	---	5.0	2.0	---	---	7.0	10.0	12.0	14.0	---	22.0
22	15.0	---	5.0	2.0	2.5	3.0	7.5	---	14.0	14.0	---	21.0
23	15.0	10.0	4.5	---	2.5	3.0	7.5	---	12.0	14.0	18.0	21.0
24	---	9.5	4.5	---	3.0	3.0	---	10.0	12.0	---	19.5	21.0
25	---	9.0	---	2.0	2.5	3.5	---	9.5	12.5	---	19.0	---
26	15.0	---	---	2.0	3.0	3.0	8.0	10.0	---	15.0	19.0	---
27	14.0	9.0	---	2.0	---	---	8.0	10.0	---	15.0	23.0	20.0
28	14.0	---	3.0	2.0	---	---	8.0	10.0	13.0	15.0	---	20.0
29	14.0	---	3.0	2.0	---	3.5	7.5	---	13.5	15.0	---	19.5
30	14.0	8.5	2.5	---	---	3.5	9.0	---	15.0	15.0	19.0	20.0
31	14.0	---	2.5	---	---	4.0	---	---	---	---	20.0	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01387500 RAMAPO RIVER NEAR MAHWAH, N. J.

LOCATION.--Lat 41°05'51", long 74°09'48", Bergen County, at gaging station at bridge on N.J. Route 17, 1.0 mile west of Mahwah.
DRAINAGE AREA.--118 sq mi.
PERIOD OF RECORD.--Chemical analyses: Water years 1963-71 (partial-record station).
Sediment records: February 1964 to June 1965.
EXTREMES.--Period of record:
Sediment concentrations (1964-65): Maximum daily, 210 mg/l Feb. 8, 1965; minimum daily, 2 mg/l Jan. 19-21, Feb. 5-6, 1965.
Sediment discharge: (1964-65): Maximum daily, 950 tons Feb. 8, 1965; minimum daily, 0.1 ton Sept. 27, Nov. 23-24, 1964.
REMARKS.--Operated as part of USGS-EPA Surveillance Network.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
DEC. 14...	126	8.0	--	40	80	21	6.5	22	--	1.3	58	0
APR. 27...	165	4.5	--	50	75	20	6.3	20	--	1.1	58	0
JUNE 29...	36	--	--	--	--	36	10	--	23	--	86	0
AUG. 25...	21	8.8	0	220	240	30	10	32	--	2.5	105	0

DATE	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
DEC. 14...	48	25	42	.1	--	.44	--	3.6	.36	.130	183	158
APR. 27...	48	34	31	.8	--	.44	--	2.3	.40	.210	160	149
JUNE 29...	71	32	51	--	--	.76	--	5.1	1.1	.460	--	--
AUG. 25...	86	33	57	.2	.58	.71	.13	5.2	2.4	.930	284	231

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
DEC. 14...	--	79	32	301	7.4	5	2	1.0	1.9	4.0	.00
APR. 27...	--	71	45	285	7.6	5	2	2.6	4.6	3.5	.01
JUNE 29...	--	131	61	385	7.2	1	18	1.9	7.6	7.0	.03
AUG. 25...	1	116	30	426	7.2	8	5	3.4	1.6	8.0	.04

DATE	TOTAL ACIDITY AS CACO3 (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	CYANIDE (CN) (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	ALDRIN (UG/L)
AUG. 25...	10	0	.01	17	8	9	22	5	55	00

01387500 RAMAPO RIVER NEAR MAHWAH, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTA-CHLOR (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)
AUG. 25...	.00	.00	.00	.00	.06	.00	.00	.00	.00	.00

DATE	METHYL PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	SILVEX (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)
AUG. 25...	.00	.00	.00	.00	.00	.02	.01	.00	E.00	7.1

DATE	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)
AUG. 25...	.00	.00	.00	1.7	.4	3.2	2.3	4.0	2.6

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DEPTH (FT)	PER-CENT OF TOTAL DEPTH	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
DEC. 14...	0820	2.0	50	2.4	4.1	275	8.7	12.6	0	0
APR. 27...	1045	2.0	50	9.5	14.2	300	7.2	12.6	0	0
JUNE 29...	1130	1.0	50	25.0	25.8	400	7.3	7.8	--	6
AUG. 25...	1000	1.0	50	18.6	21.0	400	7.6	6.2	116	0

E Value estimated due to analytical interference.

PASSAIC RIVER BASIN

01389000 POMPTON RIVER AT TWO BRIDGES, N. J.

LOCATION.--Lat 40°53'52", long 74°16'22", Passaic County, water-quality recorder at partial-record gaging station at bridge on Two Bridges Road, just above mouth, and 0.3 mile northeast of Two Bridges.

DRAINAGE AREA.--380 sq mi.

PERIOD OF RECORD.--Chemical analyses: June 1963 to September 1965, water years 1966-68 (partial-record station), July 1969 to September 1971.

Water temperatures: October 1962 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum, 530 micromhos Feb. 6; minimum, 92 micromhos Sept. 13.

Dissolved oxygen: Maximum, 15.2 mg/l July 10; minimum, 2.3 mg/l Aug. 29.

Water temperatures: Maximum, 28.0°C July 8-9; minimum, freezing point on many days during winter months.

pH: Maximum, 8.5 Aug. 26; minimum, 5.2 Aug. 29.

Period of record:

Specific conductance (1969-71): Maximum, 650 micromhos Oct. 22, 1969; minimum, 92 micromhos Sept. 13, 1971.

Dissolved oxygen (1969-71): Maximum, 15.3 mg/l July 24, 1970; minimum, 2.3 mg/l Aug. 29, 1971.

Water temperatures: Maximum, 29.5°C July 28, 1970; minimum, freezing point on many days during winter months.

pH (1969-71): Maximum, 9.0 July 24, 1970; minimum, 5.2 Aug. 29, 1971.

REMARKS.--Missing continuous water-quality records due to malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
OCT. 15...	7.5	50	55	23	8.0	31	--	2.5
NOV. 16...	--	--	--	13	3.7	--	11	--
DEC. 10...	--	--	--	20	6.4	--	20	--
JAN. 15...	--	--	--	21	6.0	--	34	--
FEB. 26...	--	--	--	14	4.2	--	14	--
MAR. 31...	--	--	--	18	4.8	--	16	--
APR. 20...	5.4	530	86	16	5.0	12	--	2.4
MAY 20...	--	--	--	16	4.0	--	15	--
JUNE 30...	--	--	--	18	7.0	--	28	--
JULY 21...	4.4	40	68	25	7.0	17	--	2.2
AUG. 18...	--	--	--	20	6.4	--	22	--
SEP. 22...	9.4	210	75	16	4.8	10	--	1.3

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT. 15...	62	0	51	63	28	.2	12	3.1	218
NOV. 16...	25	0	21	27	15	--	1.7	.23	--
DEC. 10...	48	0	39	44	20	--	7.0	.94	--
JAN. 15...	45	0	37	46	43	--	6.6	.88	--
FEB. 26...	26	0	21	25	22	--	4.2	.18	--
MAR. 31...	41	0	34	29	23	--	3.7	.31	--
APR. 20...	38	0	31	28	22	.6	3.0	.27	132
MAY 20...	37	0	30	26	20	--	3.8	.33	--
JUNE 30...	66	0	54	34	29	--	5.1	1.2	--
JULY 21...	70	0	57	29	31	.1	3.8	.89	183
AUG. 18...	61	0	50	34	23	--	6.6	1.1	--
SEP. 22...	42	0	34	25	17	.0	3.4	.26	123

01389000 POMPTON RIVER AT TWO BRIDGES, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 15...	206	91	40	349	7.3	5	2.8	--
NOV. 16...	--	48	27	152	7.5	5	1.6	--
DEC. 10...	--	77	37	259	7.7	1	3.8	--
JAN. 15...	--	77	40	331	7.0	9	1.2	--
FEB. 26...	--	53	31	178	7.1	6	1.6	--
MAR. 31...	--	64	31	219	7.1	3	3.1	--
APR. 20...	113	61	30	211	7.4	3	.9	3.0
MAY 20...	--	57	26	194	6.8	5	2.7	--
JUNE 30...	--	74	20	290	6.9	7	3.6	--
JULY 21...	155	92	34	293	7.1	3	6.0	7.0
AUG. 18...	--	76	26	277	7.2	2	3.8	--
SEP. 22...	108	60	30	189	6.8	10	--	5.5

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 15...	1500	18.0	350	7.2	--	2000
NOV. 16...	1430	9.7	160	7.6	10.8	2000
DEC. 10...	1200	3.2	240	8.1	12.2	700
JAN. 15...	0900	.6	370	7.9	13.0	800
FEB. 26...	0900	2.2	180	7.1	13.4	1750
MAR. 31...	0915	9.4	310	7.5	12.0	3500
APR. 20...	1430	15.4	210	8.0	12.0	390
MAY 20...	1300	17.5	180	6.7	9.0	460
JUNE 30...	1115	24.0	270	7.0	6.6	--
JULY 21...	1130	22.6	266	6.8	5.8	2900
AUG. 18...	0930	23.5	250	7.2	7.7	312
SEP. 22...	1300	18.6	180	6.4	7.8	--

01389000 POMPTON RIVER AT TWO BRIDGES, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	344	330	338	268	238	247	216	193	208	---	---	---
2	350	338	344	241	229	235	227	217	223	---	---	---
3	---	---	---	248	230	234	245	227	237	---	---	---
4	---	---	---	254	248	252	252	232	240	328	286	---
5	---	---	---	261	243	255	261	255	258	339	293	313
6	---	---	---	240	224	231	270	258	262	297	283	290
7	---	---	---	235	223	230	282	272	278	---	---	---
8	---	---	---	239	229	232	299	242	265	---	---	---
9	397	387	---	242	220	230	256	248	253	---	---	---
10	497	381	408	229	221	226	260	248	252	---	---	---
11	---	---	---	245	213	229	255	249	252	237	227	---
12	---	---	---	210	172	185	393	247	290	253	231	241
13	340	312	---	170	154	163	374	314	342	255	251	255
14	312	288	297	149	137	142	310	274	296	303	255	263
15	300	260	285	166	136	144	300	260	272	---	---	---
16	---	---	---	137	133	135	295	282	288	---	---	---
17	---	---	---	152	137	145	375	285	318	313	285	299
18	---	---	---	154	148	151	343	283	301	---	---	---
19	---	---	---	---	---	---	287	277	282	---	---	---
20	[illegible]	238	---	---	---	---	281	275	277	---	---	---
21	[illegible]	244	255	---	---	---	277	271	273	---	---	---
22	[illegible]	202	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	172	164	---	---	---	---	---	---	---
25	---	---	---	183	171	175	---	---	---	---	---	---
26	---	---	---	188	176	182	---	---	---	---	---	---
27	208	198	---	191	173	---	---	---	---	---	---	---
28	231	211	220	195	177	---	308	292	---	---	---	---
29	230	158	183	190	184	188	308	300	304	---	---	---
30	215	167	188	193	185	189	312	302	304	---	---	---
31	243	219	230	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	268	133	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	156	148	152	225	215	222	277	267	271
2	---	---	---	157	153	156	239	225	230	268	260	264
3	337	331	---	166	156	161	248	240	---	268	262	265
4	332	326	328	177	165	171	---	---	---	276	256	266
5	455	325	360	180	166	171	---	---	---	276	262	269
6	530	384	456	178	166	173	---	---	---	279	269	274
7	486	356	393	179	171	175	219	187	---	281	267	272
8	355	329	340	172	166	169	191	181	186	281	259	274
9	336	322	329	174	166	171	193	179	185	271	249	262
10	329	319	324	177	171	174	185	173	178	274	264	269
11	318	306	313	179	175	177	196	158	179	266	248	259
12	---	---	---	190	178	---	200	144	157	---	---	---
13	---	---	---	196	192	194	182	146	153	---	---	---
14	---	---	---	199	191	196	162	152	158	---	---	---
15	---	---	---	201	183	194	170	162	166	---	---	---
16	---	---	---	188	178	182	187	173	181	---	---	---
17	---	---	---	188	178	183	189	181	185	---	---	---
18	242	224	---	183	177	---	194	186	190	---	---	---
19	242	216	227	---	---	---	206	188	194	196	180	189
20	237	225	230	---	---	---	218	204	209	205	197	201
21	230	216	223	---	---	---	233	219	225	209	199	205
22	239	217	225	---	---	---	237	225	232	213	203	207
23	257	205	220	---	---	---	245	229	234	210	196	202
24	206	202	204	177	173	---	250	242	246	218	208	213
25	205	199	201	180	172	176	250	242	246	229	179	196
26	198	184	189	185	179	182	256	248	251	205	187	194
27	193	175	181	196	176	184	271	255	263	248	216	234
28	171	157	162	202	196	199	275	271	273	252	244	248
29	---	---	---	209	199	203	271	265	268	274	246	257
30	---	---	---	212	204	208	275	267	270	292	252	279
31	---	---	---	215	205	211	---	---	---	300	280	291
MONTH	---	---	---	215	148	---	275	144	211	---	---	---

01389000 POMPTON RIVER AT TWO BRIDGES, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	262	238	---	337	311	321	281	261	274	164	130	149
2	245	239	---	347	325	332	279	217	248	184	166	175
3	247	205	227	374	336	353	236	214	225	194	184	187
4	---	---	---	366	330	343	236	224	230	200	194	198
5	---	---	---	344	310	326	233	223	228	206	200	204
6	---	---	---	329	311	322	239	229	236	214	202	206
7	---	---	---	311	297	---	248	238	243	212	198	204
8	---	---	---	330	308	322	252	240	247	226	194	215
9	219	213	---	---	---	---	263	243	252	232	212	224
10	227	213	220	---	---	---	273	245	259	240	230	235
11	235	221	226	---	---	---	296	278	291	242	238	241
12	227	215	222	---	---	---	314	298	307	238	104	153
13	---	---	---	---	---	---	321	309	315	194	92	124
14	240	208	227	330	308	---	329	311	319	108	104	106
15	276	236	260	334	306	320	339	313	322	119	105	109
16	282	226	250	356	310	335	351	295	318	130	122	124
17	281	263	270	352	320	334	322	284	303	148	132	139
18	291	271	280	370	316	340	306	278	291	159	149	152
19	321	293	301	---	---	---	351	335	341	171	163	167
20	343	309	328	---	---	---	348	332	339	184	174	179
21	347	289	313	321	309	---	344	326	333	190	186	189
22	337	275	301	334	314	321	349	321	331	201	187	192
23	332	304	315	337	303	---	350	298	321	200	194	196
24	329	291	313	336	310	319	450	268	358	218	198	202
25	---	---	---	332	306	320	399	261	312	217	209	212
26	---	---	---	317	267	294	380	360	369	219	211	215
27	356	318	334	314	264	288	362	238	318	226	220	221
28	349	321	331	317	263	280	290	130	---	232	226	230
29	376	348	361	304	298	301	152	124	139	233	223	229
30	381	327	351	308	276	296	150	132	143	237	225	230
31	---	---	---	277	259	267	146	136	139	---	---	---
MONTH	---	---	---	---	---	---	450	124	278	242	92	187

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	5.5	6.2	---	---	---	10.3	9.3	10.0	---	---	---
2	7.1	5.2	6.1	7.4	6.9	7.1	10.7	9.7	10.1	---	---	---
3	---	---	---	8.2	7.0	7.7	10.1	9.9	9.9	---	---	---
4	---	---	---	8.1	7.7	7.9	10.3	9.7	9.9	12.9	12.6	---
5	---	---	---	8.0	7.6	7.8	10.4	9.0	9.8	12.8	12.5	12.7
6	---	---	---	8.8	8.0	8.4	11.3	10.1	11.0	13.2	12.8	13.0
7	---	---	---	8.6	8.0	8.3	11.9	11.4	11.7	---	---	---
8	---	---	---	8.1	6.9	7.5	12.2	12.0	12.1	---	---	---
9	8.8	6.5	---	7.6	5.8	6.6	12.4	12.1	12.2	---	---	---
10	8.6	5.2	6.7	8.8	7.3	8.5	12.2	11.9	12.0	---	---	---
11	8.5	5.2	6.7	8.8	8.3	8.5	12.1	11.9	12.0	13.7	13.3	---
12	8.1	4.9	6.4	9.3	8.7	9.0	12.2	12.0	12.1	13.4	12.9	13.1
13	7.8	4.8	6.2	9.1	8.8	9.0	12.4	12.1	12.3	13.2	12.4	12.9
14	7.4	4.2	5.8	9.3	8.8	9.1	12.3	11.9	12.1	13.1	12.5	12.8
15	5.9	4.4	5.2	9.5	8.5	---	12.2	11.5	12.0	---	---	---
16	8.2	5.8	7.2	9.8	9.3	9.5	12.3	11.9	12.2	13.2	12.5	12.9
17	8.1	7.1	7.6	11.0	9.5	10.5	12.3	12.0	12.1	---	---	---
18	7.9	7.2	7.6	10.9	10.6	10.8	12.4	11.9	12.2	---	---	---
19	7.4	6.8	7.2	10.7	10.1	10.5	12.8	12.2	12.5	---	---	---
20	7.7	7.1	7.3	10.1	9.6	9.9	12.7	12.2	12.5	---	---	---
21	7.4	6.4	6.9	10.1	8.5	---	12.6	12.3	12.4	---	---	---
22	7.1	6.6	6.8	10.2	9.7	10.0	---	---	---	---	---	---
23	7.6	7.3	7.4	9.5	9.3	9.4	---	---	---	---	---	---
24	8.0	6.6	7.7	11.4	9.5	10.4	---	---	---	---	---	---
25	7.7	6.4	7.2	11.5	11.2	11.3	---	---	---	---	---	---
26	---	---	---	11.5	10.5	11.1	---	---	---	13.4	13.0	---
27	8.3	7.8	---	11.2	9.7	---	---	---	---	13.5	12.7	13.0
28	8.4	7.9	8.1	10.5	8.7	9.8	13.0	12.8	---	14.2	13.5	13.9
29	9.1	8.2	8.7	10.8	9.5	9.7	12.9	12.6	12.7	14.3	13.4	13.8
30	8.4	7.5	7.8	9.7	9.2	9.3	13.0	12.2	12.8	13.7	13.0	13.3
31	7.7	6.6	7.3	---	---	---	---	---	---	13.7	12.5	13.1
MONTH	---	---	---	11.5	5.8	9.1	---	---	---	---	---	---

01389000 POMPTON RIVER AT TWO BRIDGES, N. J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.0	13.2	13.6	14.1	13.2	13.8	13.6	12.0	12.8	12.1	9.1	10.5
2	14.1	13.3	13.8	13.9	13.4	13.6	12.8	11.8	12.3	10.9	8.6	9.8
3	13.7	13.2	13.5	13.8	13.0	13.5	11.7	11.1	---	11.3	8.7	9.9
4	13.5	12.7	13.1	13.2	12.9	13.0	---	---	---	11.9	8.8	10.3
5	13.0	12.1	12.4	13.4	13.0	13.2	---	---	---	12.3	9.0	10.6
6	12.2	11.6	11.9	13.3	12.7	13.1	---	---	---	10.5	8.4	9.5
7	12.0	11.4	11.7	12.9	12.3	12.7	12.9	12.3	---	11.7	8.5	10.0
8	11.9	11.5	11.6	13.6	12.5	13.0	12.9	11.8	12.2	10.1	7.8	8.4
9	12.0	11.3	11.6	13.8	13.4	13.6	13.3	11.8	12.4	10.1	8.5	9.3
10	12.3	11.7	12.0	13.9	13.5	13.7	12.8	11.7	12.2	10.7	8.8	9.7
11	12.4	11.9	12.2	13.5	13.3	13.4	13.2	12.1	12.6	11.2	8.2	8.9
12	---	---	---	13.7	13.1	13.4	13.3	12.1	12.6	10.1	7.5	8.8
13	---	---	---	13.1	12.9	13.0	13.3	11.8	12.5	9.2	6.8	7.7
14	---	---	---	13.3	12.8	13.1	13.7	11.7	12.6	10.4	8.6	9.6
15	---	---	---	13.2	12.6	12.9	14.1	11.4	13.0	10.5	9.1	9.8
16	---	---	---	13.2	12.6	12.8	13.5	12.0	12.8	9.7	9.2	9.4
17	---	---	---	13.3	12.6	12.9	14.0	12.1	13.0	10.0	8.9	9.5
18	14.5	13.9	---	13.9	13.0	13.4	13.8	11.5	12.6	9.8	8.5	9.2
19	13.2	12.6	12.8	13.3	12.8	13.1	13.5	11.2	12.2	9.3	7.9	8.6
20	12.8	12.6	12.7	13.2	12.7	13.0	13.9	11.1	12.4	9.6	7.7	8.5
21	13.2	12.7	12.9	13.2	12.7	12.9	13.1	10.4	11.6	8.2	7.5	7.8
22	13.3	13.0	13.1	13.2	12.6	12.9	13.3	10.3	11.6	8.9	7.5	8.2
23	13.4	13.2	13.3	13.1	12.4	12.7	13.5	10.4	11.8	9.0	7.7	8.3
24	13.8	13.5	13.6	12.6	12.0	12.4	13.0	10.0	11.4	8.7	7.5	8.1
25	13.9	13.7	13.8	13.3	12.4	12.8	13.2	9.8	11.4	9.1	7.6	8.3
26	14.2	13.7	14.0	13.4	12.7	13.0	13.0	9.9	11.4	9.2	7.3	8.3
27	13.9	13.5	13.6	13.7	12.8	13.2	13.1	9.7	11.3	9.7	7.8	8.7
28	14.1	13.6	13.9	13.5	12.6	13.0	10.7	9.0	9.9	9.4	7.7	8.4
29	---	---	---	13.4	12.4	12.9	11.7	8.8	10.1	8.9	7.3	8.1
30	---	---	---	13.7	12.5	13.1	12.0	9.1	10.5	7.9	6.8	7.4
31	---	---	---	13.7	12.7	13.1	---	---	---	8.9	7.1	7.9
MONTH	14.5	11.3	---	14.1	12.0	13.1	14.1	8.8	12.0	12.3	6.8	9.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.3	7.3	8.3	9.5	6.1	7.6	6.3	4.9	5.6	6.1	4.9	5.6
2	9.2	7.0	8.2	9.1	4.3	6.7	6.9	5.2	6.0	6.9	6.0	6.4
3	9.0	7.3	8.1	11.2	5.9	8.5	7.8	5.5	6.5	7.0	6.3	6.7
4	8.8	7.5	8.1	11.9	8.0	9.5	7.0	5.3	6.1	7.0	6.3	6.7
5	8.2	7.2	7.7	11.7	8.0	9.6	8.7	5.7	7.1	6.9	6.1	6.6
6	7.9	6.8	7.3	11.0	7.6	9.3	8.4	5.7	7.1	6.7	5.5	6.2
7	6.9	6.5	---	13.8	7.7	10.3	8.5	5.8	7.2	6.4	4.3	5.5
8	---	---	---	13.8	7.9	10.7	8.8	5.4	7.1	5.9	4.6	5.3
9	7.6	6.2	---	15.0	8.2	11.4	8.5	5.0	6.8	5.7	4.5	5.2
10	8.4	5.5	7.1	15.2	8.1	11.6	8.2	4.5	6.3	5.2	4.3	4.7
11	7.4	5.3	6.5	10.8	6.4	9.1	7.0	5.4	6.2	4.5	3.7	4.0
12	6.7	5.2	6.1	11.6	4.6	8.0	7.9	4.4	6.3	5.5	3.9	4.9
13	6.7	5.1	6.0	12.7	6.3	9.2	8.4	6.0	7.2	5.8	5.0	5.4
14	5.4	3.9	4.7	9.2	6.1	8.6	9.4	7.0	7.9	6.2	6.0	6.1
15	5.5	4.4	5.0	12.0	5.8	8.9	9.1	6.3	7.7	6.1	5.1	5.6
16	7.3	5.3	6.3	12.3	6.6	9.6	9.9	6.4	8.1	5.6	4.8	5.2
17	6.9	5.8	6.4	11.4	6.0	8.6	9.0	6.3	7.7	6.5	5.2	6.0
18	6.8	5.5	6.3	11.4	5.2	8.3	10.5	6.1	8.1	7.0	6.7	6.8
19	7.4	5.3	6.4	8.3	4.4	6.5	9.1	5.4	7.4	7.3	6.9	7.1
20	8.3	5.3	6.6	5.9	4.1	4.9	9.2	4.7	6.9	7.4	7.2	7.3
21	7.8	5.0	6.3	8.2	5.2	6.3	10.1	6.2	7.8	7.5	7.2	7.4
22	6.2	4.5	5.3	8.9	5.8	7.0	10.9	5.9	8.3	8.0	7.5	7.7
23	6.1	3.8	4.9	10.8	6.3	8.5	12.6	5.9	9.2	7.9	7.5	7.7
24	6.9	4.6	5.8	11.2	6.7	8.8	11.7	6.5	9.0	8.0	7.5	7.8
25	7.9	5.1	6.3	8.5	6.0	7.2	12.3	5.8	9.1	8.3	7.6	7.9
26	7.0	5.1	6.3	6.5	4.0	5.4	12.5	5.9	9.2	8.2	7.5	7.9
27	8.1	5.5	6.8	5.6	3.6	4.6	8.6	5.9	6.7	8.1	7.6	7.9
28	8.5	6.6	7.2	8.4	3.7	6.1	7.4	2.7	4.8	8.1	7.7	7.9
29	8.4	6.3	7.1	8.0	5.3	6.6	5.0	2.3	3.3	8.0	6.8	7.2
30	9.2	6.1	7.5	5.9	3.7	4.9	5.8	2.8	4.7	7.9	7.4	7.6
31	---	---	---	7.9	5.1	6.4	5.2	4.6	4.9	---	---	---
MONTH	9.3	3.8	6.6	15.2	3.6	8.0	12.6	2.3	7.0	8.3	3.7	6.5

01389000 POMPTON RIVER AT TWO BRIDGES, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	15.0	16.0	12.0	10.0	11.0	7.0	6.0	6.5	---	---	---
2	16.5	14.5	15.5	11.5	11.0	11.5	8.5	6.5	7.5	---	---	---
3	18.0	15.0	16.5	11.5	10.5	11.0	8.0	6.5	7.5	---	---	---
4	16.5	14.5	16.0	11.5	11.0	11.0	8.5	6.5	7.5	1.0	1.0	---
5	---	---	---	11.0	9.5	10.5	6.5	5.0	5.5	2.0	1.0	1.5
6	---	---	---	10.0	9.0	9.5	5.0	3.5	4.5	1.5	0.5	1.0
7	---	---	---	10.0	8.5	9.5	3.5	1.5	2.5	---	---	---
8	---	---	---	10.0	9.0	9.5	2.0	0.5	1.5	---	---	---
9	18.0	17.0	---	10.0	8.5	9.5	2.5	1.0	2.0	---	---	---
10	18.5	16.5	17.5	10.5	10.0	10.0	3.5	2.5	3.0	---	---	---
11	19.0	17.5	18.0	12.0	10.5	11.0	3.5	2.5	3.0	2.0	1.5	---
12	19.5	17.5	18.5	12.0	11.5	11.5	3.0	2.5	2.5	2.5	1.5	2.0
13	19.5	18.0	19.0	11.5	10.5	11.0	3.0	2.5	3.0	1.5	0.5	1.0
14	20.0	18.5	19.5	11.0	10.5	10.5	3.5	2.5	3.0	1.0	0.5	0.5
15	19.5	18.5	19.0	10.5	10.0	10.0	3.5	3.0	3.0	---	---	---
16	18.5	16.0	17.5	10.0	8.5	9.5	3.0	2.0	2.5	1.0	0	0.5
17	15.5	12.5	14.0	8.5	7.5	8.0	2.5	1.5	2.0	---	---	---
18	13.5	12.0	12.5	8.0	7.0	7.5	3.0	2.5	3.0	---	---	---
19	14.0	11.5	13.0	9.0	8.0	8.5	3.5	2.5	3.0	---	---	---
20	12.5	11.5	12.0	9.0	8.0	8.5	4.0	3.0	3.5	---	---	---
21	13.0	11.5	12.5	9.0	8.0	8.5	3.0	2.5	3.0	---	---	---
22	14.5	13.0	14.0	9.0	7.5	8.0	---	---	---	---	---	---
23	15.0	14.0	14.5	8.5	6.0	8.0	---	---	---	---	---	---
24	15.5	14.5	15.0	6.0	4.5	5.5	---	---	---	---	---	---
25	15.0	14.5	15.0	4.5	4.0	4.5	---	---	---	---	---	---
26	14.5	13.5	14.0	4.5	3.5	4.0	---	---	---	1.5	1.0	---
27	13.5	12.0	13.0	6.0	4.5	5.5	---	---	---	0.5	0	0.5
28	12.0	10.5	11.5	6.0	5.5	6.0	1.0	0.5	---	0.5	0	0
29	10.5	9.5	10.5	6.5	6.0	6.5	0.5	0	0	0.5	0	0
30	11.0	9.5	10.5	7.5	6.5	7.0	0.5	0	---	1.0	0	0.5
31	11.0	10.0	10.5	---	---	---	---	---	---	0.5	0	0.5
MONTH	20.0	9.5	14.5	12.0	3.5	9.0	---	---	---	---	---	---

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0	0	---	---	---	8.0	6.0	7.0	13.5	10.0	12.0
2	0.5	0	0	---	---	---	9.5	7.5	8.5	12.5	11.5	12.0
3	0.5	0	0	---	---	---	9.0	8.5	---	12.0	11.5	11.5
4	0	0	0	---	---	---	---	---	---	12.5	11.0	11.5
5	0	0	0	---	---	---	---	---	---	14.5	10.5	13.0
6	0.5	0	0.5	---	---	---	---	---	---	14.0	13.0	13.5
7	0.5	0	0	---	---	---	7.0	5.5	---	16.0	12.0	14.0
8	0.5	0	0.5	3.0	2.5	---	7.0	5.0	6.0	15.5	12.5	14.0
9	1.0	0.5	0.5	3.0	2.0	2.5	8.5	5.5	7.0	13.0	12.5	12.5
10	1.0	0	0.5	4.0	2.0	3.0	8.5	7.5	8.0	15.5	12.0	13.5
11	1.0	0	0.5	4.0	3.5	3.5	9.5	7.0	8.0	17.5	13.5	15.5
12	---	---	---	5.0	3.5	4.5	10.0	7.5	8.5	17.5	15.5	16.5
13	---	---	---	5.5	4.5	5.0	11.0	8.5	10.0	17.5	13.5	15.5
14	---	---	---	6.0	4.5	5.5	11.0	9.5	10.0	15.5	13.0	14.0
15	---	---	---	6.5	5.0	6.0	10.0	8.0	9.0	14.5	12.5	13.5
16	---	---	---	8.0	5.5	7.0	9.0	8.0	8.5	13.5	13.0	13.0
17	---	---	---	7.0	6.0	6.5	10.0	7.5	9.0	16.0	12.5	14.0
18	3.0	1.5	---	6.0	4.5	---	11.0	8.5	10.0	17.5	13.5	15.5
19	3.5	2.0	2.5	4.5	3.5	4.0	12.5	9.5	11.0	19.0	16.0	17.5
20	3.0	2.5	3.0	4.5	3.5	4.0	14.0	11.0	12.5	19.0	16.0	17.5
21	3.5	2.5	3.0	6.0	4.0	4.5	14.0	12.5	13.0	18.0	16.5	17.0
22	3.0	2.5	2.5	5.5	4.0	4.5	12.5	11.5	12.0	17.5	15.5	16.5
23	2.5	2.0	2.0	6.0	5.0	5.5	13.5	10.5	12.0	17.5	14.5	16.0
24	2.5	2.0	2.5	5.0	4.0	4.5	13.0	11.0	12.0	17.0	15.0	16.0
25	3.5	2.0	3.0	5.5	3.5	4.5	11.5	10.0	11.0	17.0	15.0	16.0
26	3.5	2.0	3.0	4.5	3.5	4.0	11.0	10.0	10.5	17.5	16.0	17.0
27	4.5	3.5	4.0	6.0	3.5	4.5	13.0	9.5	11.5	18.0	15.5	16.5
28	4.5	3.5	3.5	7.0	4.0	5.5	11.5	10.5	11.0	18.5	15.0	17.0
29	---	---	---	7.5	6.0	7.0	11.0	10.0	10.5	19.0	16.0	17.5
30	---	---	---	8.0	6.0	7.0	11.5	10.5	11.0	17.5	16.5	16.5
31	---	---	---	8.5	6.0	7.0	---	---	---	17.5	16.0	16.5
MONTH	4.5	0	---	---	---	---	14.0	5.0	10.0	19.0	10.0	15.0

01389000 POMPTON RIVER AT TWO BRI[illegible]S, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	16.5	17.5	27.5	25.0	26.0	23.5	22.5	23.0	21.0	20.5	21.0
2	18.5	17.0	18.0	26.5	25.0	25.5	23.5	22.5	23.0	21.0	20.0	20.5
3	19.5	17.0	18.5	26.0	24.0	25.0	24.5	22.5	23.5	21.0	20.0	20.5
4	21.0	18.5	20.0	26.0	23.5	25.0	24.0	22.5	23.0	22.0	20.5	21.0
5	22.0	19.5	20.5	26.0	23.0	24.5	23.5	21.5	22.5	23.0	21.5	22.0
6	21.5	19.5	20.5	26.5	23.0	25.0	24.0	21.5	23.0	23.5	22.5	23.0
7	22.0	19.5	---	27.0	24.0	25.5	24.5	22.5	23.5	24.0	23.0	23.5
8	---	---	---	28.0	24.5	26.0	25.5	23.5	24.5	24.0	23.0	23.5
9	24.5	23.0	---	28.0	25.0	26.5	26.5	25.0	25.5	25.0	23.0	24.0
10	24.5	22.0	23.5	27.5	25.5	26.5	27.0	26.0	26.0	25.0	23.5	23.5
11	23.5	21.0	22.5	26.0	24.0	25.0	26.5	25.5	26.0	23.0	22.0	22.5
12	23.0	21.0	22.5	25.5	22.5	24.0	25.5	23.5	24.5	22.0	21.0	21.5
13	23.0	21.5	22.5	25.5	22.5	24.0	24.5	23.0	23.5	21.5	21.0	21.0
14	23.0	21.5	22.0	25.5	23.0	25.0	25.5	23.0	24.0	21.0	20.5	21.0
15	21.5	18.5	19.5	26.0	22.5	24.5	25.5	23.0	24.0	21.5	20.5	21.0
16	20.5	18.0	19.0	25.5	22.5	24.0	25.5	22.5	24.0	22.0	21.0	21.5
17	22.0	19.0	20.5	26.0	23.0	24.5	25.5	22.0	23.5	21.5	21.0	21.5
18	23.0	20.0	21.5	26.0	22.5	24.5	26.0	22.5	24.0	21.5	21.0	21.0
19	23.5	21.0	22.5	24.0	22.5	23.0	25.0	23.0	24.0	21.0	19.5	20.0
20	24.0	22.0	23.5	23.5	22.0	23.0	25.5	23.0	24.0	19.5	19.0	19.5
21	25.0	23.5	24.0	24.0	21.0	22.5	26.5	24.0	25.0	20.0	19.0	19.5
22	25.5	24.0	25.0	25.0	22.5	23.5	26.5	24.0	25.0	19.5	18.0	18.5
23	25.0	24.0	24.5	25.5	22.5	24.0	26.0	23.5	24.5	18.5	18.0	18.0
24	26.5	24.0	25.0	25.5	23.0	24.0	23.5	21.0	22.5	18.0	17.0	17.5
25	27.0	25.0	26.0	26.0	23.5	24.5	23.0	19.5	21.5	17.0	15.5	16.5
26	27.5	25.5	26.0	24.5	23.5	24.0	23.5	20.5	22.0	16.5	16.0	16.0
27	27.0	25.5	26.0	25.0	23.5	24.5	22.5	19.5	21.0	16.0	15.5	15.5
28	26.0	24.0	25.5	25.0	22.5	24.0	21.0	20.0	20.5	16.0	15.5	16.0
29	24.0	23.0	23.5	25.5	24.5	25.0	21.0	19.5	20.5	17.5	16.0	16.0
30	26.0	23.0	24.5	25.0	22.5	23.5	21.5	20.0	21.0	17.5	16.0	17.0
31	---	---	---	24.5	22.5	23.5	21.5	21.0	21.5	---	---	---
MONTH	27.5	16.5	22.5	28.0	21.0	24.5	27.0	19.5	23.5	25.0	15.5	20.0

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	7.1	7.2	6.8	6.7	6.7	7.0	6.8	6.9	---	---	---
2	7.3	7.1	7.2	6.7	6.7	6.7	6.8	6.7	6.8	---	---	---
3	7.2	7.1	7.2	7.2	6.7	7.0	6.8	6.8	6.8	---	---	---
4	7.2	7.1	7.1	7.2	7.1	7.2	6.9	6.8	6.8	7.0	6.9	---
5	---	---	---	7.2	7.1	7.1	6.9	6.8	6.9	7.1	6.9	7.0
6	---	---	---	7.2	7.1	7.2	6.9	6.8	6.9	7.2	7.0	7.1
7	---	---	---	7.2	7.1	7.2	6.9	6.9	6.9	---	---	---
8	---	---	---	7.2	7.1	7.1	7.0	6.9	7.0	---	---	---
9	7.2	7.1	---	7.1	7.0	7.1	7.0	7.0	7.0	---	---	---
10	7.3	7.0	7.1	7.1	7.0	7.0	7.1	7.0	7.0	---	---	---
11	7.4	7.1	7.2	7.0	6.8	7.0	7.1	7.0	7.0	6.8	6.6	---
12	7.3	7.1	7.2	7.1	6.9	7.1	7.0	7.0	7.0	6.9	6.7	6.8
13	7.3	7.0	7.2	7.1	6.8	7.0	7.1	6.9	7.0	6.9	6.8	6.8
14	7.2	7.0	7.1	7.0	6.8	6.9	7.0	6.9	7.0	6.9	6.7	6.8
15	7.1	6.9	7.0	7.0	6.8	6.9	7.0	7.0	7.0	---	---	---
16	7.4	6.9	7.2	6.9	6.7	6.8	7.1	6.9	7.0	6.9	6.8	6.9
17	7.3	7.2	7.3	7.1	6.8	6.9	7.1	6.9	7.0	---	---	---
18	7.3	7.1	7.2	7.1	7.0	7.0	7.0	6.9	6.9	---	---	---
19	7.1	7.1	7.1	7.0	6.9	7.0	7.1	6.9	7.0	---	---	---
20	7.1	7.0	7.0	7.0	6.9	7.0	7.1	7.0	7.1	---	---	---
21	7.0	6.9	6.9	7.0	6.8	6.9	7.1	6.9	7.0	---	---	---
22	6.9	6.8	6.9	7.1	7.0	7.0	---	---	---	---	---	---
23	6.9	6.7	6.8	7.1	7.0	7.0	---	---	---	---	---	---
24	6.7	6.6	6.6	7.2	7.0	7.1	---	---	---	---	---	---
25	6.6	6.5	6.6	7.2	7.1	7.1	---	---	---	---	---	---
26	6.6	6.5	6.5	7.1	7.0	7.1	---	---	---	7.1	7.0	---
27	6.8	6.4	6.6	7.1	7.0	7.0	---	---	---	7.2	7.1	7.1
28	6.7	6.7	6.7	7.0	7.0	7.0	7.1	6.7	---	7.2	7.1	7.2
29	6.8	6.7	6.7	7.0	7.0	7.0	7.1	7.0	7.0	7.2	7.1	7.2
30	[illegible]	6.7	6.7	7.0	6.9	7.0	7.1	7.0	---	7.1	6.6	6.9
31	6.8	6.8	6.8	---	---	---	---	---	---	7.2	7.0	7.1
MONTH	7.4	6.4	7.0	7.2	6.7	7.0	---	---	---	---	---	---

01389000 POMPTON RIVER AT TWO BRIDGES, N. J.--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	7.1	7.2	6.9	6.4	6.7	6.8	6.5	6.7	7.4	6.9	7.1
2	7.3	7.2	7.3	6.9	6.8	6.9	6.8	6.5	6.6	7.1	6.9	7.0
3	7.3	7.1	7.2	7.0	6.9	6.9	6.8	6.7	---	7.2	6.8	7.0
4	7.2	7.1	7.2	7.0	7.0	7.0	---	---	---	7.2	6.9	7.0
5	7.2	7.0	7.0	7.0	6.8	6.9	---	---	---	7.2	6.9	7.0
6	7.1	6.7	7.0	6.9	6.7	6.8	---	---	---	7.1	6.8	6.9
7	7.1	6.8	7.0	6.8	6.7	6.8	6.8	6.5	---	7.0	6.8	6.9
8	7.0	6.9	7.0	7.1	6.7	6.9	6.8	6.6	6.7	7.0	6.7	6.8
9	7.1	6.8	6.9	7.1	6.8	7.0	6.8	6.4	6.6	6.8	6.7	6.8
10	7.1	7.0	7.0	7.1	6.8	7.0	6.9	6.6	6.7	6.8	6.7	6.7
11	7.0	6.8	6.9	7.0	6.9	7.0	6.8	6.4	6.6	7.2	6.7	7.0
12	---	---	---	7.0	6.7	6.9	6.8	6.5	6.7	7.0	6.7	6.8
13	---	---	---	7.1	7.0	7.0	6.8	6.5	6.7	6.9	6.7	6.8
14	---	---	---	7.1	6.9	7.0	7.4	6.8	7.0	7.1	6.8	7.0
15	---	---	---	7.1	6.7	6.9	7.0	6.6	6.8	7.0	6.8	6.9
16	---	---	---	7.1	6.7	6.9	6.9	6.6	6.7	6.8	6.7	6.7
17	---	---	---	7.3	7.1	7.1	7.0	6.6	6.8	6.8	6.6	6.7
18	6.7	6.3	---	7.1	6.9	7.0	7.0	6.6	6.8	6.8	6.6	6.7
19	6.9	6.5	6.8	7.0	6.9	7.0	7.0	6.7	6.9	6.9	6.6	6.7
20	7.0	6.8	6.9	6.9	6.8	6.9	7.1	6.7	6.9	6.9	6.6	6.7
21	6.9	6.6	6.8	7.0	6.7	6.9	7.0	6.8	6.9	6.7	6.5	6.5
22	7.0	6.9	7.0	6.9	6.7	6.8	7.3	6.9	7.1	6.7	6.5	6.6
23	7.0	6.9	6.9	7.1	6.9	7.0	7.2	6.9	7.1	6.7	6.5	6.6
24	7.0	6.8	6.9	7.3	7.0	7.1	7.3	7.0	7.1	6.7	6.6	6.6
25	7.0	6.8	6.9	7.2	7.0	7.1	7.4	7.0	7.1	6.7	6.6	6.6
26	7.1	6.7	7.0	7.2	7.0	7.1	7.3	7.1	7.2	6.9	6.6	6.7
27	7.0	6.3	6.7	7.1	6.8	6.9	7.2	7.1	7.2	6.9	6.7	6.8
28	6.8	6.4	6.7	6.9	6.6	6.8	7.4	7.2	7.3	6.8	6.7	6.8
29	---	---	---	7.0	6.6	6.8	7.6	6.9	7.2	6.8	6.7	6.7
30	---	---	---	7.0	6.6	6.8	7.6	7.1	7.3	6.7	6.7	6.7
31	---	---	---	6.9	6.6	6.8	---	---	---	6.8	6.6	6.7
MONTH	7.3	6.3	---	7.3	6.4	6.9	7.6	6.4	6.9	7.4	6.5	6.8

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.7	6.7	7.2	6.8	7.0	6.6	6.5	6.5	6.8	6.1	6.5
2	6.9	6.6	6.7	7.0	6.6	6.8	6.5	6.4	6.5	6.9	6.0	6.7
3	6.8	6.6	6.7	7.7	6.7	7.2	6.5	6.3	6.4	6.9	6.6	6.9
4	6.7	6.6	6.7	7.9	7.1	7.5	6.7	6.3	6.5	7.0	6.3	6.8
5	6.6	6.5	6.6	7.4	7.0	7.2	7.0	6.7	6.8	7.0	5.4	6.5
6	6.6	6.5	6.5	7.5	7.0	7.2	6.9	6.6	6.7	7.1	6.3	6.8
7	6.5	6.4	---	8.3	6.9	7.5	6.9	6.6	6.7	7.0	6.4	6.8
8	---	---	---	8.4	7.1	7.7	7.0	6.6	6.8	7.0	6.4	6.6
9	6.7	6.4	---	8.3	7.0	7.7	7.0	6.6	6.7	6.9	6.2	6.7
10	7.0	6.5	6.7	8.2	7.2	7.7	7.4	6.6	6.8	7.0	6.3	6.5
11	6.7	6.4	6.5	7.6	7.0	7.3	6.9	6.6	6.7	7.0	5.9	6.6
12	6.6	6.4	6.5	7.3	6.8	7.0	6.8	6.4	6.6	6.9	6.4	6.7
13	6.5	6.4	6.5	7.4	6.8	7.1	6.8	6.5	6.7	6.7	5.7	6.4
14	6.5	6.3	6.4	7.3	6.7	7.0	7.1	6.7	6.8	6.6	6.2	6.4
15	6.5	6.4	6.4	8.0	6.7	7.3	6.9	6.7	6.8	6.6	5.9	6.3
16	6.6	6.5	6.5	8.0	6.9	7.4	7.0	6.6	6.8	---	---	---
17	6.6	6.5	6.5	7.9	6.9	7.3	7.1	6.7	6.9	---	---	---
18	6.6	6.5	6.6	7.7	6.8	7.2	8.0	6.8	7.3	---	---	---
19	6.8	6.5	6.6	7.1	6.5	6.9	7.5	6.9	7.2	---	---	---
20	7.0	6.6	6.7	6.8	6.6	6.7	7.5	6.8	7.0	---	---	---
21	7.2	6.6	6.8	7.4	6.7	7.0	7.6	6.9	7.2	---	---	---
22	6.9	6.5	6.7	7.5	6.8	7.1	7.3	6.8	7.0	---	---	---
23	6.7	6.5	6.6	7.9	6.9	7.3	7.1	6.7	6.9	---	---	---
24	6.8	6.6	6.7	7.9	7.0	7.4	6.9	6.7	6.8	---	---	---
25	6.9	6.6	6.7	7.1	6.8	6.9	8.3	6.7	7.2	---	---	---
26	6.8	6.6	6.7	6.9	6.7	6.8	8.5	6.4	7.3	---	---	---
27	6.8	6.7	6.8	6.7	6.6	6.6	7.2	6.4	6.7	---	---	---
28	7.4	6.8	7.0	7.2	6.6	6.8	7.7	5.6	6.5	---	---	---
29	7.3	6.8	7.0	7.2	6.8	6.9	6.1	5.2	5.7	7.0	7.0	---
30	7.5	6.8	7.1	6.7	6.6	6.6	6.0	5.6	5.8	7.1	7.0	7.0
31	---	---	---	6.9	6.5	6.7	6.7	5.7	6.1	---	---	---
MONTH	7.5	6.3	6.7	8.4	6.5	7.1	8.5	5.2	6.7	---	---	---

01389500 PASSAIC RIVER AT LITTLE FALLS, N. J.

LOCATION.--Lat 40°53'05", long 74°13'35", Passaic County, 0.5 mile upstream from gaging station at Passaic Valley Water Commission intake in Little Falls.

DRAINAGE AREA.--762 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1962 to September 1965, water years 1966-70 (partial-record station), October 1970 to September 1971.

Water temperatures: October 1962 to September 1971.

Sediment records: August 1963 to July 1965.

EXTREMES.--1970-71:

Dissolved oxygen: Maximum daily, 12.5 mg/l Feb. 15, Mar. 10; minimum daily, 2.2 mg/l Sept. 10.

Water temperatures: Maximum daily, 26.5°C June 28; minimum daily, freezing point on several days during winter months.

Period of record:

Dissolved oxygen (1970-71): Maximum daily, 12.5 mg/l Feb. 15, Mar. 10; minimum daily, 2.2 mg/l Sept. 10.

Water temperatures: Maximum daily, 28.0°C July 28, 1963 and July 19, 1968; minimum daily, freezing point on many days during winter months.

Sediment concentrations (1963-65): Maximum daily, 250 mg/l Feb. 8, 1965; minimum daily, 4 mg/l Nov. 13-14, 1964.

Sediment discharge (1963-65): Maximum daily, 1,800 tons Feb. 8, 1965; minimum daily, 1 ton on many days.

REMARKS.--Once daily dissolved-oxygen and water-temperature records provided by the Passaic Valley Water Commission.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	POTASSIUM (K) (MG/L)
OCT. 19...	152	--	--	--	--	--	--	--	--
DEC. 10...	322	--	--	--	25	9.0	--	26	--
APR. 20...	916	7.5	--	--	18	6.2	18	--	6.2
JULY 14...	159	--	--	--	31	9.3	--	42	--
SEP. 27...	1400	12	510	130	20	5.6	16	--	2.8

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)
DEC. 10...	55	0	45	51	39	--	2.7	2.7
APR. 20...	43	0	35	32	35	.3	9.0	1.4
JULY 14...	85	0	70	47	49	--	23	5.8
SEP. 27...	55	0	45	29	21	.0	4.7	.91

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 10...	--	--	100	55	365	7.5	5	2.0	--
APR. 20...	172	153	70	35	270	7.2	4	2.8	5.0
JULY 14...	--	--	116	46	431	6.6	24	10	--
SEP. 27...	157	138	73	28	234	6.8	50	3.4	11

01389500 PASSAIC RIVER AT LITTLE FALLS, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED BERYLLIUM (BE) (UG/L)	DISSOLVED BISMUTH (BI) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)
OCT. 19...	--	0	--	--	--	--	0	--
SEP. 27...	68	--	30	<0.6	<3	85	<14	<3

DATE	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED GALLIUM (GA) (UG/L)	DISSOLVED GERMANIUM (GE) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)
OCT. 19...	0	0	--	--	--	4	--	.0	--
SEP. 27...	--	<2	6	<2	<3	3	<10	--	2

DATE	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SILVER (AG) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)	DISSOLVED TIN (SN) (UG/L)	DISSOLVED TITANIUM (TI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	DISSOLVED ZIRCONIUM (ZR) (UG/L)
OCT. 19...	--	--	--	--	--	--	20	--
SEP. 27...	13	<0.3	110	<3	4	2.0	<140	<7

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
DEC. 10...	1100	3.2	310	8.3	10.6	75
APR. 20...	1100	14.5	310	7.6	8.6	14800
JULY 14...	1115	24.2	400	9.4	7.4	20000
SEP. 27...	1230	16.2	200	7.4	5.6	1000

01389500 PASSAIC RIVER AT LITTLE FALLS, N. J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE DAILY MEASUREMENT BETWEEN 0800 AND 1000)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	6.1	9.0	11.6	10.3	11.6	10.1	7.8	5.8	5.4	4.0	4.6
2	4.5	6.0	8.7	10.8	10.7	11.3	10.3	8.1	5.7	5.9	4.8	4.5
3	4.4	6.1	8.5	11.1	11.0	11.6	9.6	7.5	5.2	5.3	4.6	4.8
4	4.3	5.4	8.0	11.3	11.4	11.7	8.9	7.6	6.0	6.6	4.4	4.4
5	5.0	6.2	8.5	11.7	11.0	12.2	9.2	7.7	5.4	6.5	4.2	4.1
6	5.0	5.6	8.3	10.8	10.3	12.0	9.2	7.5	5.4	7.7	4.3	4.0
7	4.6	6.1	9.5	12.2	10.1	11.8	10.6	6.8	5.1	7.1	3.5	2.8
8	4.3	6.2	10.2	12.2	10.8	11.7	11.0	7.0	4.8	7.5	3.0	2.8
9	4.3	6.3	10.4	12.0	11.3	12.3	10.6	7.0	4.4	7.5	3.0	3.0
10	4.3	6.3	10.3	11.5	11.5	12.5	10.1	6.7	4.8	6.3	3.0	2.2
11	4.6	6.1	9.9	11.3	11.3	12.0	10.4	6.6	5.2	6.5	3.9	2.3
12	4.4	7.3	9.7	11.2	11.8	12.0	10.0	6.1	6.1	4.3	3.4	5.5
13	4.5	7.3	9.6	11.0	11.1	11.2	9.5	5.1	5.8	6.3	4.3	6.5
14	4.0	7.5	9.9	11.3	12.0	11.0	9.4	7.6	4.6	5.4	4.8	6.2
15	4.2	8.3	10.2	11.3	12.5	11.0	9.6	7.8	4.8	5.3	4.5	5.8
16	4.3	8.5	10.4	11.4	11.9	10.6	10.2	7.7	4.7	6.0	5.5	5.3
17	5.5	8.8	10.5	11.4	11.5	10.8	10.0	8.0	5.7	4.6	5.7	5.0
18	5.6	8.7	10.6	11.5	11.0	11.3	9.9	7.7	5.7	5.0	6.0	5.1
19	5.6	8.7	11.0	11.5	10.8	11.5	8.9	6.7	6.0	5.8	5.9	5.3
20	5.5	8.5	11.2	11.2	10.3	11.9	8.3	6.1	6.3	4.3	4.8	4.7
21	5.5	8.7	11.2	11.0	10.9	11.6	7.7	5.6	7.1	3.7	4.9	4.8
22	5.9	8.6	11.1	10.7	11.0	11.6	7.2	5.9	6.0	4.1	5.2	5.3
23	6.8	9.0	11.0	10.3	11.5	11.3	7.4	6.4	5.2	5.0	5.4	5.3
24	7.0	9.3	11.2	10.1	11.7	11.2	7.4	6.1	4.0	5.8	5.7	4.8
25	6.0	9.9	11.1	10.0	11.5	11.8	7.3	6.4	4.1	6.1	6.1	5.9
26	6.1	10.3	11.3	9.8	11.6	12.0	7.8	6.4	4.3	6.0	5.4	5.6
27	5.7	10.2	11.6	10.3	11.7	11.9	8.2	5.7	4.4	3.8	4.4	5.5
28	5.7	9.6	11.6	10.5	11.5	11.5	7.9	5.6	5.1	3.8	7.1	5.7
29	6.7	9.2	11.7	11.2	---	10.7	7.6	5.6	4.8	4.4	6.9	5.7
30	6.8	9.2	11.9	10.5	---	10.3	7.8	5.3	5.3	3.0	5.7	6.1
31	6.3	---	11.5	10.2	---	10.2	---	7.7	---	3.9	5.2	---
MONTH	5.2	7.8	10.3	11.1	11.2	11.5	9.1	6.8	5.3	5.4	4.8	4.8

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE DAILY MEASUREMENT BETWEEN 0800 AND 1000)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.5	10.0	5.0	0	0.5	4.5	7.0	10.5	14.0	24.5	24.0	21.0
2	15.5	12.0	6.5	0.5	0.5	5.0	7.0	11.0	14.0	25.0	23.5	20.0
3	15.5	12.0	6.5	1.0	0.5	4.5	9.0	12.0	15.5	25.0	23.0	20.0
4	15.5	12.0	8.5	1.0	1.0	3.0	9.0	11.5	16.0	25.0	24.0	21.0
5	15.0	11.5	6.5	2.0	1.5	1.0	10.0	11.5	20.5	24.0	22.0	22.0
6	14.5	11.0	5.5	2.0	1.5	3.0	10.0	14.0	21.0	24.5	22.0	23.0
7	15.0	11.5	3.5	1.0	1.0	4.0	5.5	13.5	19.0	25.0	22.0	23.5
8	15.5	10.0	2.0	1.0	1.5	3.5	5.5	13.5	23.0	25.0	23.5	23.5
9	16.5	10.0	2.0	0	1.5	2.0	5.5	14.5	23.5	26.0	24.0	24.0
10	16.5	10.5	3.5	0	0.5	3.5	6.0	13.5	23.5	25.0	25.0	24.0
11	17.0	10.5	3.5	1.0	0	3.5	5.5	13.5	22.0	25.0	25.5	21.5
12	18.0	11.5	4.0	2.0	1.0	3.5	8.0	14.0	23.0	24.0	25.0	20.5
13	18.5	11.0	4.0	1.0	2.0	4.5	9.5	13.5	23.0	24.0	24.0	21.5
14	19.0	11.5	3.5	3.0	1.5	5.0	10.5	13.5	22.0	24.0	24.0	21.0
15	19.5	11.5	3.5	1.5	0.5	5.5	10.0	14.0	21.0	24.0	24.5	21.0
16	18.5	10.5	3.5	0.5	1.0	6.5	9.5	14.5	19.0	24.5	24.0	21.0
17	16.0	9.0	3.5	0	1.0	5.5	8.5	13.5	19.5	24.0	24.0	21.5
18	14.5	8.5	3.5	0	1.0	5.0	9.5	15.0	20.5	24.0	24.0	21.5
19	13.5	9.0	4.0	0	3.0	5.5	10.5	16.5	21.0	24.0	23.5	21.0
20	13.0	9.0	3.5	0.5	2.0	5.5	13.0	18.0	21.5	22.0	23.5	20.0
21	13.0	9.0	3.5	1.0	2.0	5.0	13.5	17.0	24.0	22.0	23.5	20.0
22	13.5	9.0	3.5	0	5.0	4.5	13.0	18.0	24.5	23.0	23.5	19.5
23	14.5	9.5	2.0	1.0	3.5	4.0	11.5	15.5	25.0	23.0	24.0	19.0
24	14.5	6.5	3.0	2.0	3.0	4.5	11.5	15.5	25.0	24.0	23.5	16.0
25	15.0	5.0	3.0	1.5	3.5	4.0	12.0	16.5	25.5	24.5	21.5	16.5
26	14.5	4.5	3.5	1.0	3.5	4.0	10.5	14.5	26.0	24.5	21.5	16.5
27	13.5	5.0	2.0	1.0	3.5	4.0	10.5	14.0	26.0	24.0	21.5	16.0
28	12.0	5.5	2.0	1.0	4.5	5.0	12.0	14.0	26.5	24.0	20.0	15.0
29	11.5	6.5	1.0	0.5	---	6.5	10.5	15.0	25.0	24.5	20.0	16.5
30	10.5	8.0	0.5	1.0	---	6.5	10.5	15.0	24.5	25.0	20.5	18.0
31	11.0	---	0.5	0	---	6.5	---	13.5	---	23.5	21.5	---
MONTH	15.0	9.5	3.5	1.0	2.0	4.5	9.5	14.0	22.0	24.0	23.0	20.0

01392600 PASSAIC RIVER AT HARRISON, N. J.

LOCATION.--Lat 40°44'00", long 74°09'21", Hudson County, at 4th Street bridge in Harrison.
DRAINAGE AREA.--864 sq mi, approximately.
PERIOD OF RECORD.--Chemical analyses: June 1970 to September 1971.
REMARKS.--Operated part of USGS-EPA Surveillance Network.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	NITRATE (NO3) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO-PHYLL A (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 13...	3.3	1.9	--	--	1.4	8.0	7.3	.06	27300	7.2	5	--
NOV. 17...	2.3	4.6	--	--	.500	9.0	3.3	.06	5880	6.8	8	--
DEC. 15...	2.6	4.8	--	--	.690	7.0	1.6	.05	17000	7.2	10	--
JAN. 19...	2.8	5.6	--	--	1.2	8.0	2.4	.19	17500	7.1	15	--
FEB. 23...	[illegible].2	5.9	--	--	.690	14	3.7	.05	294	7.0	45	--
MAR. 16...	.75	4.0	--	--	.330	8.0	3.0	.04	965	7.3	10	--
APR. 27...	2.1	4.2	--	--	.570	8.0	17	.05	10800	6.8	19	--
MAY 25...	7.5	2.7	--	--	.740	10	5.5	.05	6990	7.0	20	--
JUNE 29...	2.7	1.7	--	--	.870	10	12	.07	16700	7.0	17	--
JULY 26...	2.6	2.0	--	--	.890	10	28	.05	21000	7.3	3	--
AUG. 25...	.68	2.3	.50	.18	.570	12	17	.05	20300	7.2	23	17
SEP. 28...	.89	3.8	--	--	3.8	14	4.5	.01	319	6.9	8	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)
OCT. 27...	--	--	--	--	--	--	--	--	--	--
AUG. 25...	430	1200	260	185	492	3990	80	0	16	1080

DATE	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)
OCT. 27...	--	--	--	--	--	--	--	--	--
AUG. 25...	7060	13200	12	2490	2420	5.1	19	5	.00

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT. 27...	0	0	--	0	0	--	4	.0	26
AUG. 25...	1	--	6	--	--	54	11	--	70

01392600 PASSAIC RIVER AT HARRISON, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTA-CHLOR (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)
AUG. 25...	.00	.01	.00	.00	.02	<0.1	.00	.00	.00	.00	.05	.00
SEP. 28...	.00	.00	.00	.00	.01	M.00	.00	.00	.00	.00	.00	.01

DATE	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG. 25...	.00	.04	.00	.03	.08	.00	<40	.2	150	.8	120	.7
SEP. 28...	.00	.00	.00	.00	.00	.00	--	--	--	--	--	--

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DEPTH (FT)	PER-CENT OF TOTAL DEPTH	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT. 13...	1030	11	50	21.9	18.7	--	8.6	2.0	--	--
NOV. 17...	1045	8.0	50	11.2	5.9	6400	7.9	7.6	128000	8000
DEC. 15...	0945	9.0	50	6.6	5.7	--	--	6.8	25000	3900
JAN. 19...	0930	9.0	50	1.6	--	--	8.0	8.2	50000	5000
FEB. 23...	1230	12	50	3.4	8.5	300	6.8	12.0	70000	1200
MAR. 16...	1100	8.0	50	11.1	19.5	1000	8.1	11.6	7500	1240
APR. 27...	1300	9.0	50	12.5	17.1	--	7.3	6.8	7000	375
MAY 25...	1215	6.0	50	19.6	27.7	6800	7.0	1.6	1750	150
JUNE 29...	1245	7.0	50	25.9	26.1	17400	6.9	5.8	--	3450
JULY 26...	0930	7.0	50	25.3	24.5	--	7.5	2.6	960000	16500
AUG. 25...	1430	9.0	50	26.0	24.6	--	6.6	5.2	9500	--
SEP. 28...	1030	5.0	50	16.5	17.4	300	7.0	7.8	15000	620

M Trace

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
01379000 - PASSAIC R NR MILLINGTON NJ (LAT 40 40 48 LONG 074 31 45)									
DEC., 1970 09...	22	--	--	--	19	7.7	--	19	--
MAY , 1971 20...	74	5.9	--	112	14	5.6	10	--	2.0
JULY 15...	5.0	--	--	--	16	6.1	--	13	--
SEP. 24...	168	14	860	80	12	4.4	8.8	--	3.2
01379500 - PASSAIC R NR CHATHAM NJ (LAT 40 43 31 LONG 074 23 23)									
DEC., 1970 09...	44	--	--	--	22	8.7	--	58	--
MAY , 1971 20...	133	9.8	--	106	13	7.3	32	--	2.5
JULY 15...	17	--	--	--	33	13	186	187	--
SEP. 24...	335	15	1600	320	15	5.5	17	--	3.4
01380500 - ROCKAWAY R AB RESERVOIR AT BOONTON NJ (LAT 40 54 06 LONG 074 24 40)									
DEC., 1970 09...	153	--	--	--	16	5.8	--	12	--
MAY , 1971 20...	198	7.1	--	53	15	5.2	9.0	--	1.5
JULY 14...	58	--	--	--	25	9.6	--	13	--
SEP. 28...	230	10	320	64	15	5.4	8.6	--	1.2
01381200 - ROCKAWAY R AT PINE BROOK NJ (LAT 40 51 29 LONG 074 20 53)									
DEC., 1970 11...	--	--	--	--	24	8.5	--	21	--
APR., 1971 20...	--	7.0	210	55	14	5.5	19	--	2.4
JULY 14...	--	--	--	--	30	7.8	--	39	--
SEP. 24...	--	9.7	250	83	18	4.6	11	--	2.8
01381500 - WHIPPANY R AT MORRISTOWN NJ (LAT 40 48 21 LONG 074 27 22)									
DEC., 1970 09...	24	--	--	--	22	7.8	--	24	--
MAY , 1971 20...	41	15	--	45	17	6.5	18	--	2.0
JULY 14...	25	--	--	--	21	8.0	--	26	--
SEP. 27...	56	16	110	99	18	6.3	16	--	2.6
01381800 - WHIPPANY R NR PINE BROOK NJ (LAT 40 50 42 LONG 074 20 51)									
DEC., 1970 11...	--	--	--	--	34	11	--	44	--
APR., 1971 20...	--	--	340	180	22	7.8	33	--	4.1
JULY 14...	--	--	--	--	30	9.6	--	26	--
SEP. 24...	--	15	900	340	26	7.3	24	--	3.7
01391500 - SADDLE R AT LODI NJ (LAT 40 53 25 LONG 074 04 51)									
DEC., 1970 10...	27	--	--	--	56	18	--	40	--
JUNE, 1971 11...	31	16	50	189	55	16	43	--	5.6
JULY 14...	50	--	--	--	38	10	--	34	--
SEP. 27...	97	12	80	125	49	11	24	--	4.3

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
01379000 - PASSAIC R NR MILLINGTON NJ (LAT 40 40 48 LONG 074 31 45)									
DEC., 1970 09...	48	0	39	42	25	--	1.4	.09	--
MAY , 1971 20...	47	0	39	14	18	.9	1.2	.03	130
JULY 15...	70	0	57	14	14	--	1.0	.23	--
SEP. 24...	38	0	31	18	12	.1	2.9	.31	126
01379500 - PASSAIC R NR CHATHAM NJ (LAT 40 43 31 LONG 074 23 23)									
DEC., 1970 09...	57	0	47	49	83	--	3.8	2.9	--
MAY , 1971 20...	54	0	44	27	47	.2	5.4	1.4	202
JULY 15...	115	0	94	82	243	--	25	7.9	--
SEP. 24...	48	0	39	23	22	.2	4.1	.51	156
01380500 - ROCKAWAY R AB RESERVOIR AT BOONTON NJ (LAT 40 54 06 LONG 074 24 40)									
DEC., 1970 09...	44	0	36	27	18	--	1.0	.07	--
MAY , 1971 20...	39	0	32	17	17	.2	2.6	.07	118
JULY 14...	84	0	69	20	28	--	1.7	.08	--
SEP. 28...	44	0	36	18	17	.0	2.8	.08	121
01381200 - ROCKAWAY R AT PINE BROOK NJ (LAT 40 51 29 LONG 074 20 53)									
DEC., 1970 11...	54	0	44	49	32	--	.6	4.8	--
APR., 1971 20...	38	0	31	29	27	1.0	5.5	2.0	152
JULY 14...	60	0	49	56	42	--	32	7.3	--
SEP. 24...	41	0	34	23	17	.2	6.0	1.1	120
01381500 - WHIPPANY R AT MORRISTOWN NJ (LAT 40 48 21 LONG 074 27 22)									
DEC., 1970 09...	67	0	55	42	25	--	7.6	1.1	--
MAY , 1971 20...	51	0	42	37	21	.2	7.7	.57	167
JULY 14...	75	0	62	40	25	--	5.2	.65	--
SEP. 27...	54	0	44	24	20	.2	8.6	.81	138
01381800 - WHIPPANY R NR PINE BROOK NJ (LAT 40 50 42 LONG 074 20 51)									
DEC., 1970 11...	108	0	89	73	39	--	6.6	2.5	--
APR., 1971 20...	68	0	56	55	31	1.5	7.8	1.4	231
JULY 14...	93	0	76	40	25	--	22	3.8	--
SEP. 24...	83	0	68	40	24	.2	8.0	.60	234
01391500 - SADDLE R AT LODI NJ (LAT 40 53 25 LONG 074 04 51)									
DEC., 1970 10...	148	0	121	60	60	--	41	10	--
JUNE, 1971 11...	146	0	120	54	70	.1	34	5.0	385
JULY 14...	98	0	80	37	52	--	23	6.2	--
SEP. 27...	127	0	104	46	46	.3	16	2.8	299

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01379000 - PASSAIC R NR MILLINGTON NJ (LAT 40 40 48 LONG 074 31 45)								
DEC., 1970 09...	--	79	40	244	7.1	40	.7	--
MAY , 1971 20...	95	58	20	179	7.1	90	2.2	15
JULY 15...	--	65	8	192	6.9	20	3.2	--
SEP. 24...	94	48	17	147	6.9	100	2.2	16
01379500 - PASSAIC R NR CHATHAM NJ (LAT 40 43 31 LONG 074 23 23)								
DEC., 1970 09...	--	91	45	488	6.9	25	3.6	--
MAY , 1971 20...	171	63	18	309	7.4	50	4.0	13
JULY 15...	--	136	42	1170	6.7	15	5.5	--
SEP. 24...	129	60	21	211	7.0	100	3.8	16
01380500 - ROCKAWAY R AB RESERVOIR AT BOONTON NJ (LAT 40 54 06 LONG 074 24 40)								
DEC., 1970 09...	--	64	28	185	7.6	6	1.0	--
MAY , 1971 20...	94	59	27	167	7.2	10	1.4	5.0
JULY 14...	--	102	33	274	7.3	5	.9	--
SEP. 28...	100	60	24	180	7.4	15	1.4	5.0
01381200 - ROCKAWAY R AT PINE BROOK NJ (LAT 40 51 29 LONG 074 20 53)								
DEC., 1970 11...	--	95	51	336	7.7	10	.4	--
APR., 1971 20...	129	58	27	236	6.9	5	4.2	4.5
JULY 14...	--	107	58	393	6.3	15	>9.0	--
SEP. 24...	114	64	31	191	7.3	20	3.5	6.0
01381500 - WHIPPANY R AT MORRISTOWN NJ (LAT 40 48 21 LONG 074 27 22)								
DEC., 1970 09...	--	87	32	296	7.1	2	1.4	--
MAY , 1971 20...	150	69	27	249	7.6	5	2.2	6.0
JULY 14...	--	86	24	306	6.9	5	4.6	--
SEP. 27...	138	71	27	236	6.9	2	3.8	4.0
01381800 - WHIPPANY R NR PINE BROOK NJ (LAT 40 50 42 LONG 074 20 51)								
DEC., 1970 11...	--	130	42	476	7.8	25	7.2	--
APR., 1971 20...	196	87	32	366	7.1	7	7.8	9.0
JULY 14...	--	115	39	370	6.7	15	10	--
SEP. 24...	189	95	27	310	6.7	55	6.0	13
01391500 - SADDLE R AT LODI NJ (LAT 40 53 25 LONG 074 04 51)								
DEC., 1970 10...	--	214	92	607	8.1	7	6.0	--
JUNE, 1971 11...	366	203	84	621	7.9	5	8.0	8.5
JULY 14...	--	136	56	465	6.8	20	>9.5	--
SEP. 27...	271	168	64	480	7.4	7	5.7	5.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
01379500 - PASSAIC R NR CHATHAM NJ (LAT 40 43 31 LONG 074 23 23)											
SEP., 1971 24...	290	40	<0.7	<3	80	<15	4	3	13	<2	<3
01380500 - ROCKAWAY R AB RESERVOIR AT BOONTON NJ (LAT 40 54 06 LONG 074 24 40)											
SEP., 1971 28...	21	21	<0.5	<3	27	<11	3	<2	3	<2	<3
01381500 - WHIPPANY R AT MORRISTOWN NJ (LAT 40 48 21 LONG 074 27 22)											
SEP., 1971 27...	21	22	<0.6	<3	40	<13	<3	<2	4	<2	<3

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
01379500 - PASSAIC R NR CHATHAM NJ (LAT 40 43 31 LONG 074 23 23)											
SEP., 1971 24...	12	<10	2	12	<0.3	90	<3	15	3.0	<150	<7
01380500 - ROCKAWAY R AB RESERVOIR AT BOONTON NJ (LAT 40 54 06 LONG 074 24 40)											
SEP., 1971 28...	3	<10	1	6	<0.2	67	<3	3	<2.0	<110	<5
01381500 - WHIPPANY R AT MORRISTOWN NJ (LAT 40 48 21 LONG 074 27 22)											
SEP., 1971 27...	<3	<10	2	4	0.7	86	<3	4	<2.0	<130	<6

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
01379000 - PASSAIC R NR MILLINGTON NJ (LAT 40 40 48 LONG 074 31 45)						
DEC., 1970 09...	1230	.8	230	7.9	8.8	262
MAY , 1971 20...	1530	18.3	175	7.1	4.4	312
JULY 15...	1045	22.5	200	7.3	5.6	250
SEP. 24...	1145	16.6	170	6.0	2.8	1500
01379500 - PASSAIC R NR CHATHAM NJ (LAT 40 43 31 LONG 074 23 23)						
DEC., 1970 09...	1130	1.1	440	7.9	--	25
MAY , 1971 20...	1445	20.0	325	7.4	4.6	1300
JULY 15...	1000	22.7	1100	7.3	3.2	12000
SEP. 24...	1230	17.4	200	6.1	4.2	5000
01380500 - ROCKAWAY R AB RESERVOIR AT BOONTON NJ (LAT 40 54 06 LONG 074 24 40)						
DEC., 1970 09...	0930	.4	180	7.0	11.4	100
MAY , 1971 20...	1315	18.9	175	7.7	8.8	488
JULY 14...	1315	24.1	260	9.5	7.8	760
SEP. 28...	1400	16.7	160	7.5	7.6	4000
01381200 - ROCKAWAY R AT PINE BROOK NJ (LAT 40 51 29 LONG 074 20 53)						
DEC., 1970 11...	0815	4.1	295	8.2	11.0	--
APR., 1971 20...	1300	12.0	260	7.7	10.6	188
JULY 14...	1200	22.6	390	7.0	4.2	2300
SEP. 24...	1430	19.6	180	6.7	6.6	7400
01381500 - WHIPPANY R AT MORRISTOWN NJ (LAT 40 48 21 LONG 074 27 22)						
DEC., 1970 09...	1030	2.4	280	7.7	13.0	10000
MAY , 1971 20...	1345	19.0	265	7.9	10.4	58000
JULY 14...	1400	25.1	280	7.0	8.6	34000
SEP. 27...	1400	15.8	200	7.8	8.2	150000
01381800 - WHIPPANY R NR PINE BROOK NJ (LAT 40 50 42 LONG 074 20 51)						
DEC., 1970 11...	0845	6.4	380	8.0	6.6	438
APR., 1971 20...	1230	15.9	400	7.3	5.0	12600
JULY 14...	1230	23.7	340	9.2	3.6	11000
SEP. 24...	1445	18.7	280	6.2	1.0	45000
01391500 - SADDLE R AT LODI NJ (LAT 40 53 25 LONG 074 04 51)						
DEC., 1970 10...	1015	5.8	--	8.6	9.0	300
JUNE, 1971 11...	1145	20.4	600	7.7	6.0	5900
JULY 14...	1045	22.3	400	--	4.6	--
SEP. 27...	1130	15.8	600	7.8	6.8	8000

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
01379000 - PASSAIC R NR MILLINGTON NJ (LAT 40 40 48 LONG 074 31 45)									
OCT 15, 1971	1500	9.8	40	1.1	JUL 30.......	1110	43	108	13
FEB 15.......	1305	574	29	45	JUL 30.......	1210	48	166	22
FEB 23.......	1130	514	14	19	AUG 27.......	1210	49	103	14
FEB 23.......	1230	521	11	15	AUG 27.......	1255	95	149	38
01379500 - PASSAIC R NR CHATHAM NJ (LAT 40 43 31 LONG 074 23 23)									
OCT 15, 1970	0530	59	156	25	APR 6.......	1630	87	36	8.5
OCT 15.......	1800	47	114	14	JUL 30.......	1145	447	424	512
OCT 22.......	1130	262	607	429	JUL 30.......	1615	401	455	493
OCT 22.......	1600	277	164	123	SEP 13.......	1330	1490	54	217
FEB 23, 1971	1235	650	51	90	SEP 13.......	1700	1530	57	235
01381500 - WHIPPANY R AT MORRISTOWN NJ (LAT 40 48 21 LONG 074 27 22)									
OCT 15, 1970	1500	70	67	13	JUL 30.......	1100	118	446	142
OCT 15.......	1730	62	59	9.9	JUL 30.......	1530	129	416	145
OCT 22.......	1100	174	350	164	SEP 13.......	1300	510	113	156
OCT 22.......	1530	172	56	26	SEP 13.......	1630	380	115	118
JUL 14, 1971	1400	27	32	2.3					
01388500 - POMPTON RIVER AT POMPTON PLAINS NJ (LAT 40 58 09 LONG 74 16 56)									
OCT 15, 1970	1400	391	48	51	JUL 30.......	1000	193	44	23
OCT 15.......	1645	390	57	60	JUL 30.......	1430	340	50	46
OCT 22.......	1000	332	33	30	SEP 13.......	1230	4650	62	778
FEB 23, 1971	1055	1460	21	83	SEP 13.......	1600	4380	109	1290
APR 6.......	1330	340	5	4.6					

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

01393500 - ELIZABETH R AT ELIZABETH NJ (LAT 40 40 03 LONG 074 13 09)

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
DEC., 1970 11...	11	--	--	--	79	17	--	37	--
JUNE, 1971 11...	11	15	60	42	78	18	30	--	3.0
JULY 15...	9.0	--	--	--	51	9.4	--	23	--
SEP. 27...	6.5	16	83	140	93	15	32	--	2.5

01393500 - ELIZABETH R AT ELIZABETH NJ (LAT 40 40 03 LONG 074 13 09)

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
DEC., 1970 11...	174	0	143	95	71	--	6.3	.42	--
JUNE, 1971 11...	166	1	138	95	61	.2	11	.59	440
JULY 15...	108	0	89	66	37	--	8.0	.53	--
SEP. 27...	186	0	153	80	67	.1	15	.51	420

01393500 - ELIZABETH R AT ELIZABETH NJ (LAT 40 40 03 LONG 074 13 09)

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC., 1970 11...	--	267	125	676	8.0	3	3.6	--
JUNE, 1971 11...	393	269	133	663	8.4	1	1.9	6.0
JULY 15...	--	166	77	455	7.1	25	6.8	--
SEP. 27...	412	294	141	690	7.4	5	2.5	5.0

01393500 - ELIZABETH R AT ELIZABETH NJ (LAT 40 40 03 LONG 074 13 09)

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
SEP., 1971 27...	29	140	<2	<9	95	<40	13	<4	14	<4	<9

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
01393500 - ELIZABETH R AT ELIZABETH NJ (LAT 40 40 03 LONG 074 13 09)											
SEP., 1971 27...	4	<10	6	13	<0.9	860	<9	<9	<4.0	<400	<19

ON-SITE DATA, WATER YEAR OCTOBER 1970 to SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
01393500 - ELIZABETH R AT ELIZABETH NJ (LAT 40 40 03 LONG 074 13 09)						
DEC., 1970 11...	1000	6.0	510	8.8	8.4	1250
JUNE, 1971 11...	1300	21.9	650	8.3	9.2	12600
JULY 15...	0900	21.0	380	7.1	3.0	--
SEP. 27...	1000	17.0	1000	8.2	6.8	70000

01396500 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.

LOCATION.--Lat 40°40'40", long 74°52'45", Hunterdon County, water-quality recorder at gaging station on Cregar Road bridge, 1 mile northeast of High Bridge.
DRAINAGE AREA.--65.3 sq mi.
PERIOD OF RECORD.--Chemical analyses: Water years 1961-65 (partial-record station), January 1966 to September 1971.
Water temperatures: October 1960 to September 1971.
EXTREMES.--1970-71:
Specific conductance: Maximum, 235 micromhos, May 6; minimum, 83 micromhos, Feb. 14.
Water temperatures: Minimum, freezing point Dec. 7-8, 27-28.
Period of record:
Specific conductance (1968-71); Maximum, 237 micromhos, Jan. 9, 1969; minimum, 83 micromhos, Feb. 14, 1971.
Water temperature: Maximum, 28.0°C July 3, 1966; minimum, freezing point on many days during winter months.
REMARKS.--Missing continuous water-quality records due to malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	POTASSIUM (K) (MG/L)
DEC. 10...	91	--	--	--	15	8.0	--	7.4	--
APR. 14...	164	8.4	100	18	13	6.2	7.2	--	4.4
JULY 15...	42	--	--	--	19	10	--	7.1	--
SEP. 22...	151	12	190	10	15	6.2	6.0	--	1.7

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
DEC. 10...	63	0	52	15	8.0	--	10	.27	--
APR. 14...	52	0	43	16	13	1.1	3.7	.00	114
JULY 15...	97	0	80	11	6.9	--	4.1	.35	--
SEP. 22...	64	0	52	13	9.2	.0	2.8	.14	114

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 10...	--	71	19	173	7.6	1	.6	--
APR. 14...	99	58	16	176	7.4	3	1.0	4.5
JULY 15...	--	89	9	217	7.6	4	.5	--
SEP. 22...	97	63	11	168	6.9	15	1.0	3.0

01396500 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
DEC. 10...	0930	3.3	180	7.3	13.0	370
APR. 14...	1245	12.0	170	8.6	12.2	842
JULY 15...	1130	20.4	225	8.2	8.6	30000
SEP. 22...	1115	15.6	150	7.9	10.0	5400

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	CONCENTRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCENTRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
OCT 22, 1970	1230	525	136	193	JUL 30......	1030	113	32	9.8
FEB 23, 1971	0935	505	34	46	JUL 30......	1230	125	28	9.5

01396500 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	210	201	206	162	157	159	169	163	166
2	---	---	---	208	204	206	165	162	163	163	157	160
3	---	---	---	213	203	209	166	162	164	176	163	170
4	---	---	---	213	172	205	166	161	164	175	165	170
5	---	---	---	192	145	156	160	151	154	229	160	179
6	---	---	---	175	157	168	158	153	156	168	160	163
7	---	---	---	187	176	182	154	149	152	160	148	152
8	---	---	---	194	186	190	167	149	158	153	139	146
9	---	---	---	196	190	194	169	165	167	142	131	137
10	---	---	---	203	195	200	172	167	168	144	139	140
11	---	---	---	206	177	192	168	166	167	139	130	132
12	---	---	---	181	153	170	180	165	174	133	130	132
13	---	---	---	159	136	148	201	179	189	130	126	129
14	---	---	---	156	136	145	211	199	205	132	126	129
15	---	---	---	157	129	143	203	185	195	148	131	138
16	---	---	---	151	137	146	186	164	177	143	131	138
17	---	---	---	155	150	153	196	165	177	145	138	142
18	---	---	---	160	154	156	193	165	177	145	138	142
19	---	---	---	162	147	155	190	180	186	149	144	146
20	232	174	---	157	149	154	181	164	174	146	145	146
21	233	221	229	153	135	143	164	159	162	148	142	144
22	221	133	179	157	148	153	167	163	165	159	148	151
23	167	134	149	158	152	157	173	165	168	158	150	154
24	190	168	181	152	148	150	183	168	174	158	137	151
25	196	192	194	153	149	151	195	180	186	146	136	142
26	196	194	195	158	151	154	197	178	187	156	139	147
27	197	193	195	162	157	159	176	167	172	153	138	149
28	200	193	196	165	162	163	172	154	161	152	149	150
29	201	192	197	165	164	165	172	154	160	148	141	144
30	202	195	200	167	160	164	176	169	172	141	129	135
31	204	199	202	---	---	---	169	164	167	135	129	132
MONTH	---	---	---	213	129	168	211	149	171	229	126	147

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	148	129	137	111	106	109	174	166	170	197	181	189
2	156	145	152	114	110	112	177	169	174	228	193	203
3	144	142	143	117	112	114	176	164	170	234	196	211
4	142	136	139	137	115	121	175	164	169	209	188	195
5	150	137	140	132	118	124	175	167	171	231	189	203
6	214	150	171	147	133	140	172	154	169	235	217	224
7	174	150	164	143	101	122	153	115	135	220	201	210
8	194	147	167	115	101	109	143	115	130	222	184	207
9	175	155	169	122	115	119	153	138	146	182	153	162
10	170	162	167	125	117	122	151	139	144	189	164	177
11	166	158	163	126	122	124	169	153	162	201	187	194
12	165	158	161	130	122	126	175	167	171	215	195	202
13	168	90	135	128	124	127	180	173	176	208	117	168
14	109	83	94	135	128	131	181	176	178	157	114	130
15	123	108	119	138	134	136	179	171	175	166	155	162
16	129	121	125	141	136	138	178	172	175	164	144	158
17	128	124	126	143	135	139	178	169	173	162	139	150
18	147	125	131	140	133	137	179	172	175	169	151	161
19	150	137	144	140	126	135	182	173	178	173	163	169
20	139	119	128	136	118	126	187	177	182	177	169	173
21	118	111	117	142	132	137	189	181	185	176	165	170
22	120	102	108	147	139	144	183	178	180	165	147	151
23	116	106	109	152	146	149	192	177	184	171	153	161
24	114	104	109	150	146	148	193	179	185	182	167	173
25	114	111	113	154	144	150	193	179	182	188	175	179
26	112	106	110	155	151	153	180	171	175	202	166	181
27	111	91	99	161	151	156	186	170	177	194	180	187
28	110	95	102	164	155	160	190	179	184	201	189	194
29	---	---	---	169	162	166	186	179	183	206	194	199
30	---	---	---	172	164	168	188	177	182	204	184	194
31	---	---	---	172	165	169	---	---	---	185	165	172
MONTH	214	83	134	172	101	136	193	115	171	235	114	181

01396500 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	195	182	---	---	---	---	---	---	---	---	---	---
3	194	160	181	---	---	---	---	---	---	---	---	---
4	186	160	173	---	---	---	---	---	---	---	---	---
5	206	186	195	---	---	---	---	---	---	---	---	---
6	214	202	209	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	11.0	9.0	10.0	6.0	5.0	5.5	1.0	0.5	0.5
2	---	---	---	11.0	9.0	10.0	7.5	5.5	6.5	1.0	0.5	0.5
3	---	---	---	10.5	8.5	9.5	7.0	5.5	6.5	1.0	0.5	0.5
4	---	---	---	11.0	9.5	10.0	7.5	5.0	7.0	1.0	0.5	1.0
5	---	---	---	9.5	7.5	8.5	5.0	3.5	3.5	2.5	1.0	2.0
6	---	---	---	8.0	6.5	7.0	3.5	1.5	2.5	1.5	1.0	1.0
7	---	---	---	8.5	6.0	7.0	1.5	0	0.5	1.0	0.5	0.5
8	---	---	---	9.0	6.5	7.5	1.5	0	0.5	0.5	0.5	0.5
9	---	---	---	9.0	7.0	8.0	3.0	1.5	2.5	0.5	0.5	0.5
10	---	---	---	10.0	8.5	9.5	4.0	3.0	3.5	2.0	0.5	1.5
11	---	---	---	11.5	10.0	11.0	3.5	3.0	3.5	3.0	2.0	2.5
12	---	---	---	12.0	11.0	11.5	3.5	3.0	3.5	3.5	2.0	3.0
13	---	---	---	11.0	9.0	10.0	3.5	3.0	3.5	1.5	0.5	1.0
14	---	---	---	9.5	9.0	9.0	4.0	3.0	3.5	1.5	0.5	1.0
15	---	---	---	9.5	8.5	9.0	4.0	3.0	3.5	2.5	1.0	1.5
16	---	---	---	8.5	6.0	7.5	3.5	1.0	2.5	1.0	0.5	0.5
17	---	---	---	5.5	4.5	5.5	3.5	1.0	2.5	0.5	0.5	0.5
18	---	---	---	6.5	4.5	5.0	3.5	3.0	3.0	1.0	0.5	1.0
19	---	---	---	8.0	6.5	7.5	4.0	3.0	3.5	1.0	1.0	1.0
20	10.5	9.5	---	7.5	7.0	7.5	4.5	3.5	4.5	1.0	1.0	1.0
21	11.5	9.5	11.0	7.5	6.5	7.0	3.5	2.5	3.0	1.0	1.0	1.0
22	13.5	11.5	13.0	7.0	5.0	6.0	3.0	2.0	2.5	1.0	1.0	1.0
23	14.5	13.0	14.0	7.0	3.5	6.0	2.5	1.5	2.0	1.0	1.0	1.0
24	14.5	13.0	13.5	3.5	2.0	2.5	2.5	2.0	2.5	1.0	1.0	1.0
25	13.0	12.0	12.5	2.5	1.5	2.0	3.0	2.0	2.5	1.0	1.0	1.0
26	12.0	11.0	11.5	3.5	2.0	3.0	2.5	1.0	2.0	4.0	1.0	2.5
27	11.0	8.0	10.0	5.0	3.5	4.5	1.5	0	0.5	1.5	1.0	1.0
28	9.5	7.0	8.0	6.5	5.0	6.0	0.5	0	0.5	1.0	1.0	1.0
29	9.0	6.5	7.5	6.5	6.0	6.5	0.5	0.5	0.5	1.0	1.0	1.0
30	9.0	6.5	8.0	7.5	6.0	7.0	0.5	0.5	0.5	1.0	1.0	1.0
31	10.0	8.5	9.5	---	---	---	0.5	0.5	0.5	1.0	1.0	1.0
MONTH	---	---	---	12.0	1.5	7.5	7.5	0	3.0	4.0	0.5	1.0

01396500 SOUTH BRANCH RARITAN RIVER NEAR HIGH BRIDGE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.0	1.0	1.0	7.0	4.5	---	---	---	---	---	---	---
2	1.0	1.0	1.0	---	---	---	---	---	---	---	---	---
3	1.0	1.0	1.0	---	---	---	---	---	---	---	---	---
4	1.5	1.0	1.0	---	---	---	---	---	---	---	---	---
5	1.5	1.5	1.5	---	---	---	---	---	---	---	---	---
6	1.5	1.5	1.5	---	---	---	---	---	---	---	---	---
7	1.5	1.5	1.5	---	---	---	---	---	---	---	---	---
8	2.0	1.5	2.0	---	---	---	---	---	---	---	---	---
9	4.0	2.0	3.0	---	---	---	---	---	---	---	---	---
10	2.0	1.5	2.0	---	---	---	---	---	---	---	---	---
11	3.0	1.5	2.0	---	---	---	---	---	---	---	---	---
12	5.5	2.5	4.0	---	---	---	---	---	---	---	---	---
13	5.5	2.0	3.5	---	---	---	---	---	---	---	---	---
14	2.5	1.5	2.0	---	---	---	---	---	---	---	---	---
15	2.5	1.5	2.0	---	---	---	---	---	---	---	---	---
16	4.5	2.0	3.0	---	---	---	---	---	---	---	---	---
17	4.0	2.5	3.0	---	---	---	---	---	---	---	---	---
18	5.5	3.0	4.5	---	---	---	---	---	---	---	---	---
19	5.5	5.0	5.0	---	---	---	---	---	---	---	---	---
20	5.5	5.0	5.0	---	---	---	---	---	---	---	---	---
21	6.0	4.5	5.5	---	---	---	---	---	---	---	---	---
22	5.5	4.5	5.0	---	---	---	---	---	---	---	---	---
23	4.5	4.5	---	---	---	---	---	---	---	---	---	---
24	5.5	3.5	---	---	---	---	---	---	---	---	---	---
25	6.0	4.5	---	---	---	---	---	---	---	---	---	---
26	6.5	3.0	---	---	---	---	---	---	---	---	---	---
27	6.5	4.5	---	---	---	---	---	---	---	---	---	---
28	6.5	5.5	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	6.5	1.0	2.5	---	---	---	---	---	---	---	---	---

01396800 SPRUCE RUN AT CLINTON, N. J.

LOCATION.--Lat 40°38'21", long 74°54'58", Hunterdon County, at gaging station 1,800 ft downstream from Spruce Run Reservoir dam, 0.2 mile north of Clinton.
DRAINAGE AREA.--41.3 sq mi.
PERIOD OF RECORD.--Chemical analyses: Water year 1967-71 (Partial-record station).
Water temperatures: October 1968 to September 1969, January to September 1971.
EXTREMES.--1971
Water temperatures: Maximum daily, 22.5°C Sept. 10; minimum daily, 1.0°C Jan. 21.
Period of record:
Water temperatures: Maximum, 22.5°C Sept. 10, 1971; Minimum, freezing point on many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	POTASSIUM (K) (MG/L)
DEC. 10...	8.0	--	--	--	17	6.8	--	6.2	--
APR. 14...	145	8.7	90	35	13	5.8	7.5	--	2.8
JULY 15...	73	--	--	--	14	4.6	--	8.5	--
SEP. 22...	166	6.4	380	500	16	4.9	5.3	--	2.0

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
DEC. 10...	54	0	44	23	8.8	--	4.0	.00	--
APR. 14...	45	0	37	20	13	.4	1.5	.00	105
JULY 15...	39	0	32	24	9.8	--	2.1	.02	--
SEP. 22...	45	0	37	18	9.5	.2	2.8	.02	83

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 10...	--	71	26	178	7.6	4	1.8	--
APR. 14...	95	57	20	171	7.7	7	1.2	6.0
JULY 15...	--	54	22	156	7.1	5	.9	--
SEP. 22...	87	60	23	151	6.9	5	1.6	4.5

01396800 SPRUCE RUN AT CLINTON, N. J.--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
DEC. 10...	1030	4.3	180	6.6	13.2	12
APR. 14...	1130	10.6	190	8.3	12.4	400
JULY 15...	1230	19.2	165	7.0	10.0	--
SEP. 22...	1200	19.6	130	7.3	9.2	5600

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT BETWEEN 0800 AND 1000)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	2.0	3.0	4.0	9.0	12.0	17.0	18.0	17.5
2	---	---	---	---	1.5	3.0	4.5	9.5	12.0	17.0	18.0	18.0
3	---	---	---	---	2.0	3.0	5.0	10.0	12.0	17.0	18.0	18.0
4	---	---	---	---	2.5	3.0	5.0	9.0	12.0	16.0	18.0	18.0
5	---	---	---	---	2.0	2.0	6.0	9.5	11.0	16.0	18.0	20.0
6	---	---	---	---	2.0	2.0	5.0	10.0	11.0	16.0	17.0	22.0
7	---	---	---	---	3.0	3.0	5.0	10.0	11.5	16.0	17.0	20.0
8	---	---	---	---	2.5	1.5	5.0	10.0	12.0	16.0	19.0	22.0
9	---	---	---	---	2.0	2.0	5.5	10.0	12.0	15.0	21.0	22.0
10	---	---	---	---	2.0	2.5	5.5	10.0	12.0	15.0	16.5	22.5
11	---	---	---	---	2.0	2.5	6.0	10.0	12.0	15.0	16.5	17.5
12	---	---	---	---	3.0	3.5	6.0	10.0	12.5	15.0	15.0	17.0
13	---	---	---	---	3.0	5.0	6.5	10.5	13.0	17.0	14.0	17.0
14	---	---	---	---	3.0	5.0	7.0	10.0	12.5	18.0	14.0	16.0
15	---	---	---	---	3.0	4.0	6.5	10.0	12.0	18.0	15.0	19.0
16	---	---	---	---	3.0	4.0	7.0	10.0	12.0	17.0	15.0	20.0
17	---	---	---	---	4.0	4.0	7.0	10.0	12.0	17.0	15.0	20.0
18	---	---	---	---	3.0	4.0	7.0	11.0	13.0	15.0	17.0	19.0
19	---	---	---	---	3.0	4.0	8.0	12.5	13.0	17.0	17.0	18.0
20	---	---	---	---	3.0	3.5	8.0	12.0	13.5	18.0	17.5	19.5
21	---	---	---	1.0	3.0	5.0	8.0	11.5	14.0	17.0	18.5	17.5
22	---	---	---	3.0	3.0	4.0	9.0	11.0	14.5	17.0	18.0	18.0
23	---	---	---	2.0	3.0	4.0	9.0	11.0	14.5	16.0	15.5	18.0
24	---	---	---	1.5	3.0	3.5	9.0	10.5	14.5	15.5	14.5	16.0
25	---	---	---	3.0	3.0	3.0	8.5	11.0	14.5	15.5	15.0	16.5
26	---	---	---	2.0	3.0	4.0	9.5	11.0	15.0	15.5	16.0	18.0
27	---	---	---	2.0	4.0	4.0	9.5	11.0	13.0	15.5	17.0	18.0
28	---	---	---	2.0	3.0	4.0	8.0	10.5	13.0	14.5	17.5	18.0
29	---	---	---	2.0	---	4.0	9.0	10.5	13.5	14.5	17.5	18.0
30	---	---	---	4.0	---	5.0	9.0	11.0	14.0	15.5	17.5	17.5
31	---	---	---	3.0	---	4.0	---	12.0	---	18.0	18.0	---
MONTH	---	---	---	---	2.5	3.5	7.0	10.5	13.0	16.0	17.0	18.5

01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.

LOCATION.--Lat 40°34'21", long 74°52'10", Hunterdon County, at gaging station on highway bridge at Stanton railroad station, 1.5 miles west of Stanton.
DRAINAGE AREA.--147 sq mi.
PERIOD OF RECORD.--Chemical analyses: Water years 1960-65 (partial-record station), January 1966 to September 1971.
Water temperatures: December 1959 to November 1961, December 1968 to September 1971.
Sediment records: December 1959 to September 1963.
EXTREMES.--1970-71:
Specific conductance: Maximum, 407 micromhos Feb. 5; minimum, 67 micromhos Aug. 28.
Water temperatures: Maximum, 27.5°C Aug. 9; minimum, freezing point on many days during winter months.
Period of record:
Specific conductance (1968-71): Maximum, 407 micromhos Feb. 5, 1971; minimum, 67 micromhos Aug. 28, 1971.
Water temperatures (1959-61, 68-71): Maximum 29.0°C July 2, 1961; minimum, freezing point on many days during winter months.
Sediment concentrations (1959-63): Maximum daily, 920 mg/l Mar. 6, 1963; minimum daily, 1 mg/l on many days.
Sediment discharge: (1959-63): Maximum daily, 5,600 tons Mar. 6, 1963; minimum daily, less than 0.5 ton on many days.
REMARKS.--Water-temperature records prior to 1968 were collected once daily. Missing continuous water-quality records due to malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	POTASSIUM (K) (MG/L)
DEC. 10...	98	--	--	--	18	8.8	--	7.6	--
APR. 14...	349	8.4	5900	120	13	6.5	7.5	--	2.8
JULY 15...	181	--	--	--	16	6.6	--	8.3	--
SEP. 22...	453	9.9	190	210	16	6.5	6.5	--	1.8

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
DEC. 10...	68	0	56	19	9.2	--	11	.24	--
APR. 14...	50	0	41	20	12	.1	2.9	.00	114
JULY 15...	63	0	52	17	9.9	--	2.7	.11	--
SEP. 22...	62	0	51	19	10	.1	5.7	.14	117

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 10...	--	81	25	194	7.6	1	.6	--
APR. 14...	104	59	18	179	7.4	4	1.3	4.5
JULY 15...	--	67	16	183	7.3	4	.5	--
SEP. 22...	106	67	16	178	6.9	10	1.3	4.0

01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
SEP. 22...	19	30	<0.4	<2	11	<8	<2	<0.8	2	<0.8	<2

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
SEP. 22...	2	<10	1	4	<0.2	43	<2	2	<.8	<78	<4

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
DEC. 10...	1130	5.0	200	6.9	14.4	140
APR. 14...	1030	11.0	190	8.2	12.6	320
JULY 15...	1000	20.8	200	7.8	9.2	4000
SEP. 22...	0945	16.7	160	7.5	9.4	15000

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
OCT 15, 1970	1730	181	6	2.9	JUL 15......	1100	189	7	3.6
FEB 23, 1971	0930	1290	61	212	JUL 30......	1000	225	18	11
FEB 23......	1130	1110	43	129	JUL 30......	1415	232	12	7.5

01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	189	187	189	185	181	183	174	164	169	218	198	205
2	188	184	187	187	182	185	170	167	---	221	204	212
3	190	186	188	188	185	187	---	---	---	211	200	204
4	190	186	188	188	173	184	---	---	---	204	184	197
5	193	188	191	179	166	173	---	---	---	196	156	166
6	194	189	192	179	166	171	---	---	---	170	157	162
7	195	191	193	194	180	187	---	---	---	178	169	---
8	195	189	193	204	194	199	183	171	---	185	158	173
9	196	192	194	210	204	207	---	---	---	186	160	179
10	198	195	197	215	207	212	---	---	---	186	181	183
11	199	197	198	216	204	211	---	---	---	184	176	181
12	200	196	197	214	178	203	148	130	---	187	176	182
13	202	198	201	186	150	177	156	144	150	184	176	181
14	213	202	207	148	138	142	168	152	157	223	171	185
15	211	204	207	150	144	148	174	163	169	219	181	189
16	209	198	202	154	141	147	176	160	170	191	157	177
17	204	200	203	161	154	157	218	158	186	190	156	169
18	213	204	208	164	160	162	192	187	190	196	155	171
19	211	172	198	170	158	163	197	190	192	186	161	172
20	181	176	179	160	156	158	200	189	194	185	160	173
21	183	180	181	160	149	154	190	183	186	178	163	169
22	186	150	177	159	149	153	195	178	185	176	149	164
23	153	122	129	164	159	162	210	182	193	224	153	175
24	153	134	144	166	162	164	229	209	216	206	174	180
25	166	156	160	166	162	164	224	202	208	209	175	184
26	174	167	169	164	161	162	212	207	210	211	186	196
27	176	173	175	165	163	164	212	200	209	189	180	185
28	181	176	178	169	165	166	212	204	---	186	172	179
29	189	181	185	172	169	170	214	204	208	195	178	187
30	184	176	180	177	170	173	211	206	209	202	187	198
31	185	178	179	---	---	---	214	204	208	190	158	171
MONTH	213	122	186	216	138	173	---	---	---	224	149	182

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	201	157	181	159	155	157	185	180	182	193	187	191
2	206	201	203	162	160	161	186	180	183	193	189	190
3	209	202	205	172	159	164	188	176	181	201	189	193
4	207	197	202	198	163	172	180	172	176	202	182	189
5	407	194	235	182	163	170	181	176	178	189	179	184
6	353	191	234	179	169	173	183	163	177	190	182	185
7	209	183	198	176	150	163	171	149	159	206	183	192
8	209	153	164	154	147	150	167	156	160	190	179	[illegible]
9	172	144	161	160	156	158	171	168	169	182	172	177
10	184	169	---	161	158	160	172	158	167	179	171	175
11	188	162	172	162	158	160	176	171	172	190	179	183
12	188	160	178	160	154	157	179	174	176	194	179	188
13	174	109	146	162	157	158	179	174	177	193	168	179
14	144	130	135	160	157	159	180	171	175	168	153	158
15	163	146	155	165	161	162	179	171	176	170	158	163
16	166	163	165	165	161	163	181	176	178	171	164	169
17	173	166	167	166	163	165	182	176	179	167	160	164
18	181	166	173	169	166	167	182	174	179	174	164	169
19	174	168	171	172	164	169	184	176	181	179	171	176
20	194	166	176	---	---	---	182	172	179	183	179	181
21	169	157	162	---	---	---	182	175	178	185	183	184
22	158	148	153	---	---	---	179	174	177	184	178	181
23	159	150	157	---	---	---	172	168	170	180	175	177
24	160	156	158	---	---	---	175	170	172	186	177	181
25	164	160	162	---	---	---	175	171	173	187	182	185
26	164	160	162	---	---	---	188	174	---	187	179	182
27	161	142	153	---	---	---	192	180	186	184	180	182
28	155	143	148	---	---	---	203	193	196	185	181	184
29	---	---	---	178	174	---	201	195	198	188	181	185
30	---	---	---	181	175	178	196	190	193	190	182	187
31	---	---	---	182	170	179	---	---	---	184	172	177
MONTH	407	109	173	---	---	---	203	149	177	206	153	181

01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	173	170	172	172	166	169	196	158	184	133	131	132
2	178	173	174	172	166	169	178	166	173	136	134	134
3	[illegible]	176	179	171	165	168	205	176	192	138	136	137
4	[illegible]	174	177	170	163	166	203	189	195	140	136	138
5	[illegible]	172	176	166	159	163	241	187	211	141	136	139
6	187	180	183	165	158	162	244	233	239	143	136	140
7	190	183	187	164	155	160	252	238	242	142	131	137
8	193	185	189	166	158	162	279	251	266	133	126	129
9	193	186	191	165	159	161	281	274	276	138	129	135
10	199	189	194	167	159	163	276	253	262	142	138	141
11	200	182	192	166	162	164	256	249	252	143	138	141
12	198	175	188	162	157	160	248	232	242	140	121	132
13	190	179	186	158	152	156	265	247	258	127	108	117
14	194	185	188	159	149	153	266	257	262	133	117	129
15	199	192	196	159	152	155	263	241	253	135	129	132
16	201	192	197	159	152	156	246	237	242	142	134	137
17	201	185	194	159	151	156	249	240	245	144	140	142
18	197	183	190	156	148	151	250	228	242	156	130	148
19	199	183	192	153	148	150	231	213	223	159	157	158
20	200	185	193	178	150	167	224	218	220	162	160	160
21	196	182	191	177	172	174	232	223	227	163	158	162
22	194	182	189	198	175	184	227	205	217	161	158	160
23	194	178	187	207	194	199	208	197	204	161	158	160
24	192	173	183	205	192	197	196	182	188	171	158	160
25	190	176	185	200	192	195	182	171	177	172	170	171
26	188	177	183	201	192	197	182	176	178	173	171	172
27	184	168	178	197	190	192	187	137	177	174	173	173
28	182	159	171	198	188	192	134	67	82	174	171	172
29	173	168	171	200	195	198	111	71	95	173	169	171
30	174	166	170	206	189	198	123	112	119	171	168	170
31	---	---	---	205	197	201	130	124	127	---	---	---
MONTH	201	159	185	207	148	172	281	67	209	174	108	148

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	14.5	16.5	13.5	10.5	12.0	7.5	5.5	6.5	0	0	0
2	18.0	14.5	16.5	12.5	11.0	12.0	8.5	6.5	7.5	0	0	0
3	19.0	16.0	17.5	12.5	10.5	11.5	8.0	5.5	7.0	0	0	0
4	18.0	15.0	16.5	13.0	11.5	12.0	9.0	5.0	7.5	0	0	0
5	17.0	13.5	15.0	11.5	9.5	11.0	4.5	3.0	4.0	1.0	0	0.5
6	18.0	15.0	16.5	10.0	8.0	9.0	4.5	0.5	2.5	1.5	0	0.5
7	19.5	15.5	17.5	10.0	7.5	9.0	1.0	0	0	0	0	0
8	19.5	16.5	18.0	10.5	8.0	9.0	0.5	0	0	0	0	0
9	19.5	16.5	18.5	10.5	8.5	9.5	1.5	0	0.5	0.5	0	0
10	20.5	17.5	19.0	11.5	9.5	10.5	3.5	1.0	2.0	2.0	0	1.0
11	20.0	18.5	19.0	13.0	11.5	12.5	1.0	1.0	1.0	3.0	0.5	1.5
12	20.0	17.5	19.0	13.5	13.0	13.5	3.0	1.0	2.0	3.5	1.0	2.0
13	20.0	18.0	19.0	13.0	11.5	12.5	3.0	2.5	3.0	1.5	0	0.5
14	20.5	18.5	19.5	11.5	10.5	11.0	4.0	2.5	3.0	1.5	0	0.5
15	19.5	19.0	19.5	11.0	10.5	11.0	3.5	2.0	3.0	1.5	0	0.5
16	19.5	15.0	17.5	10.5	7.5	9.0	3.0	0.5	2.0	0	0	0
17	14.5	11.5	13.0	8.0	7.0	7.5	3.5	1.0	2.5	0	0	0
18	15.0	12.0	13.0	7.5	6.0	7.0	4.0	3.0	3.5	0	0	0
19	15.5	12.5	14.5	9.5	7.5	8.5	5.0	2.5	4.0	0	0	0
20	14.0	11.0	13.0	9.0	8.0	8.5	4.5	3.5	4.5	0	0	0
21	15.0	13.0	14.0	9.0	7.5	8.5	3.5	2.5	3.0	0	0	0
22	15.5	15.0	15.0	8.5	6.5	7.5	3.5	1.5	2.0	0	0	0
23	16.5	15.0	16.0	8.5	4.5	7.0	2.5	1.0	1.5	0	0	0
24	17.5	15.0	16.0	4.0	3.0	3.5	2.0	1.0	1.5	0	0	0
25	16.0	15.0	15.5	4.0	1.5	3.0	2.5	1.0	1.5	1.5	0	0.5
26	15.0	13.5	14.5	4.5	2.0	3.0	1.5	0.5	1.0	2.0	0	0.5
27	13.5	11.0	12.5	6.0	4.0	5.0	0.5	0	0	0	0	0
28	11.5	9.5	11.0	7.5	5.5	6.5	0	0	0	0	0	0
29	11.5	8.5	10.0	7.5	6.5	7.0	0	0	0	0	0	0
30	11.5	9.0	10.0	9.0	7.0	8.0	0	0	0	0.5	0	0
31	12.5	10.0	11.0	---	---	---	0	0	0	0	0	0
MONTH	20.5	8.5	15.5	13.5	1.5	9.0	9.0	0	2.5	3.5	0	0.5

01397000 SOUTH BRANCH RARITAN RIVER AT STANTON, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0	0	0	7.0	5.0	5.5	9.5	5.5	7.5	15.0	9.0	12.0
2	0	0	0	6.0	5.0	5.5	10.5	7.5	9.0	13.0	11.5	12.0
3	0	0	0	5.5	3.5	4.5	11.5	7.5	9.5	14.0	11.0	12.0
4	0	0	0	3.5	1.0	2.5	11.5	7.0	9.0	16.5	10.0	12.5
5	0	0	0	4.0	0.5	2.5	10.5	7.5	8.5	18.5	10.5	14.5
6	0	0	0	6.0	2.5	4.5	8.0	5.5	7.0	15.0	13.5	14.5
7	0	0	0	5.5	3.5	4.5	7.5	3.5	5.5	20.0	12.0	15.5
8	0.5	0	0	4.0	2.0	3.0	8.5	5.0	6.5	15.5	13.0	14.0
9	1.5	0	0.5	4.0	1.5	3.0	10.5	5.5	8.0	13.5	12.0	12.5
10	1.0	0	0	5.5	2.0	4.0	9.5	7.5	8.5	18.0	11.5	14.5
11	2.5	0	0.5	6.0	4.5	5.0	11.0	6.5	8.5	21.5	13.5	17.0
12	3.5	0	1.5	7.0	4.0	5.5	13.0	7.0	10.0	19.5	15.5	17.5
13	1.5	0	1.0	6.5	6.0	6.0	14.5	9.0	11.5	17.0	13.0	15.0
14	1.5	0.5	0.5	7.5	5.5	6.5	13.0	9.5	11.5	16.5	12.0	14.0
15	1.5	0	1.0	9.5	6.5	8.0	12.5	7.5	9.5	16.5	12.5	14.5
16	3.5	0.5	1.5	10.5	7.0	8.5	10.5	7.5	9.0	14.5	13.0	13.5
17	3.0	0.5	2.0	8.5	5.5	7.5	12.5	6.5	9.5	17.5	12.5	15.0
18	4.5	1.0	3.0	7.5	4.0	6.0	13.5	8.5	11.0	20.5	13.5	17.0
19	4.0	3.0	3.5	5.5	5.0	5.0	16.5	9.5	13.0	22.0	16.0	19.0
20	4.0	3.5	3.5	5.0	4.0	4.5	17.5	11.5	14.5	19.5	16.5	18.0
21	5.5	3.5	4.0	6.0	3.5	4.5	17.0	13.0	14.5	17.5	15.0	16.0
22	4.0	3.0	3.5	8.0	4.5	6.0	13.5	11.0	12.5	16.5	13.5	15.0
23	3.5	3.0	3.0	8.5	5.5	6.5	15.0	9.0	11.5	18.5	12.5	15.0
24	4.5	3.0	3.5	6.0	4.0	5.0	14.0	9.5	12.0	18.5	13.0	15.5
25	5.0	3.5	4.5	6.0	2.0	4.5	11.0	9.0	10.0	19.0	14.5	17.0
26	5.5	3.5	4.5	5.5	3.5	4.0	11.5	8.5	10.0	18.5	16.0	17.0
27	6.5	4.5	5.5	7.0	3.0	5.5	15.5	8.5	11.5	17.5	14.0	15.5
28	6.5	4.5	5.5	8.0	4.5	6.0	11.5	10.0	10.5	18.0	13.0	15.5
29	---	---	---	8.5	7.0	---	12.0	10.0	11.0	18.5	14.0	16.0
30	---	---	---	9.5	6.0	7.5	13.5	9.5	11.5	16.0	15.0	15.5
31	---	---	---	9.5	5.5	7.5	---	---	---	17.0	14.5	15.5
MONTH	6.5	0	2.0	10.5	0.5	5.5	17.5	3.5	10.0	22.0	9.0	15.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	14.0	17.0	24.0	19.5	21.5	23.5	21.5	22.5	20.0	17.0	18.5
2	18.0	16.0	17.0	23.0	19.5	21.0	22.0	20.0	21.0	19.0	17.0	18.0
3	20.0	16.5	18.0	24.0	18.0	21.0	23.5	20.0	21.5	19.5	17.0	18.5
4	23.0	17.0	20.5	24.0	18.0	21.0	21.5	19.5	20.5	21.5	17.5	19.5
5	23.5	18.5	21.0	24.0	17.5	21.0	23.5	19.0	21.0	23.0	18.5	20.5
6	23.5	19.0	21.5	23.0	18.5	21.0	24.0	18.5	21.5	23.0	19.5	21.5
7	26.0	19.5	22.5	24.0	19.0	21.5	24.0	19.5	22.0	22.0	19.5	21.0
8	27.0	21.5	24.0	25.5	19.5	23.0	26.0	20.5	23.5	23.0	20.0	21.5
9	24.0	21.0	22.5	25.0	20.5	23.0	27.5	21.5	24.5	23.5	19.5	21.5
10	25.0	19.0	22.0	24.5	20.5	22.5	26.5	22.5	24.5	22.5	20.0	21.0
11	24.0	18.5	21.5	21.0	18.0	20.0	24.5	22.0	23.5	20.5	18.5	19.0
12	23.0	19.0	21.0	23.5	18.0	20.0	24.0	20.0	22.0	19.0	18.0	18.5
13	22.5	19.0	20.5	23.5	18.5	21.0	24.0	18.5	21.5	19.0	18.0	18.5
14	20.0	17.0	18.5	23.5	19.5	21.5	24.5	19.0	22.0	18.5	17.5	18.0
15	17.0	15.0	16.0	24.0	19.0	21.5	25.0	19.5	22.5	20.0	16.5	18.0
16	19.5	14.5	17.0	23.5	19.5	21.5	24.0	20.5	22.5	19.5	16.5	18.0
17	23.0	16.0	19.5	24.0	19.5	22.0	24.0	19.0	21.5	17.5	17.0	17.0
18	24.0	17.0	20.5	24.0	19.0	21.0	23.5	18.0	20.5	18.0	16.5	17.0
19	25.0	18.0	21.5	20.0	19.0	19.5	22.0	18.5	20.5	16.5	15.5	16.0
20	25.0	19.0	22.0	23.0	19.0	20.5	22.5	18.5	20.5	16.5	15.0	15.5
21	23.0	20.0	21.5	23.5	18.0	20.5	24.5	20.0	22.5	17.0	15.0	16.0
22	25.0	19.0	22.0	24.0	18.5	21.5	24.5	21.0	22.5	16.0	13.5	15.0
23	24.5	19.0	22.0	23.5	19.0	21.5	22.5	19.5	21.0	14.5	13.5	14.0
24	25.0	19.5	22.5	23.5	19.0	21.0	20.5	16.0	18.5	16.0	13.5	14.5
25	25.0	20.0	22.5	24.0	20.0	22.0	20.0	15.5	18.0	14.5	11.5	13.0
26	24.0	20.0	22.0	24.0	20.5	22.5	20.0	16.5	18.5	13.5	12.5	13.0
27	23.5	18.5	21.0	24.0	21.5	23.0	18.0	17.0	17.5	13.0	12.0	12.5
28	22.5	18.5	20.5	23.5	18.5	21.0	19.5	17.5	18.5	13.5	13.0	13.0
29	19.5	18.5	19.0	23.5	20.0	22.0	20.0	17.5	19.0	16.0	13.5	14.5
30	23.0	18.0	20.0	22.0	20.0	21.0	21.0	17.5	19.5	16.5	14.5	15.5
31	---	---	---	24.5	21.0	22.5	21.0	18.5	19.5	---	---	---
MONTH	27.0	14.0	20.5	25.5	17.5	21.5	27.5	15.5	21.0	23.5	11.5	17.5

01400480 RARITAN RIVER AT TECHNICON SITE NO. 1, AT MANVILLE, N. J.

LOCATION.--Lat 40°32'57", long 74°35'27", Somerset County, at Manville Water Company pumping station on Dukes Parkway and about 0.6 mi above gaging station, in Manville.
DRAINAGE AREA.--492 sq mi., approximately.
PERIOD OF RECORD.--Chemical analyses: February 1970 to May 1971 (discontinued).
REMARKS.--Cross-section locations are in feet from right bank looking upstream. Records of discharge are given for 01400500 Raritan River at Manville, N.J.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CROSS SECTION LOC-ATION (FT)	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.												
12...	50	197	--	--	--	--	--	--	--	--	--	--
NOV.												
25...	40	614	--	--	--	--	--	--	--	--	--	--
25...	60		14	100	70	20	7.6	9.8	2.0	50	36	13
DEC.												
15...	65	574	--	--	--	--	--	--	--	--	--	--
15...	100		12	110	60	20	7.6	9.8	1.8	49	35	15
JAN.												
19...	150	340	14	160	50	25	8.6	13	1.3	63	38	19
FEB.												
26...	90	1420	--	--	--	--	--	--	--	--	--	--
26...	150		10	70	60	15	6.0	9.5	2.2	34	29	14
MAR.												
16...	60	1210	--	--	--	--	--	--	--	--	--	--
16...	120		9.8	20	70	16	6.5	8.7	1.6	39	31	13
APR.												
27...	90	382	--	--	--	--	--	--	--	--	--	--
27...	125		5.2	120	40	18	6.8	10	1.5	61	29	14
MAY												
25...	60	444	--	--	--	--	--	--	--	--	--	--
25...	95		6.7	140	60	18	7.0	10	1.9	59	31	13

DATE	CROSS SECTION LOC-ATION (FT)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)
OCT.												
12...	50	--	--	--	--	--	--	--	--	--	--	--
NOV.												
25...	40	--	--	.39	--	--	--	--	--	--	--	--
25...	60	.1	12	.32	.38	142	139	82	41	220	7.8	5
DEC.												
15...	65	--	--	--	--	--	--	--	--	--	--	--
15...	100	.1	8.8	.36	.28	141	134	82	42	227	7.8	5
JAN.												
19...	150	.1	13	.23	.28	163	163	98	47	248	7.7	5
FEB.												
26...	90	--	--	--	--	--	--	--	--	--	--	--
26...	150	.1	7.5	1.2	.15	114	110	62	34	162	7.7	9
MAR.												
16...	60	--	--	--	--	--	--	--	--	--	--	--
16...	120	.0	5.6	.38	.15	118	111	67	35	195	7.6	9
APR.												
27...	90	--	--	--	--	--	--	--	--	--	--	--
27...	125	.1	3.6	.00	.10	121	118	73	23	210	7.2	1
MAY												
25...	60	--	--	--	--	--	--	--	--	--	--	--
25...	95	.3	4.2	1.4	.14	143	121	74	26	211	6.9	3

01400480 RARITAN RIVER AT TECHNICON SITE NO 1, AT MANVILLE, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CROSS SECTION LOC-ATION (FT)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	PHENOLS (UG/L)
OCT.												
12...	50	--	0	0	--	0	0	--	2	.0	6	--
NOV.												
25...	40	--	--	--	--	--	--	--	--	--	--	--
25...	60	--	--	--	0	--	--	0	--	--	10	--
DEC.												
15...	65	--	--	--	--	--	--	--	--	--	--	--
15...	100	--	--	--	0	--	--	10	--	--	30	0
JAN.												
19...	150	--	--	--	--	--	--	0	--	--	--	--
FEB.												
26...	90	--	--	--	--	--	--	--	--	--	--	--
26...	150	--	--	--	0	--	--	7	--	--	6	--
MAR.												
16...	60	--	--	--	--	--	--	--	--	--	--	--
16...	120	--	--	--	0	--	--	7	--	--	3	26
APR.												
27...	90	--	--	--	--	--	--	--	--	--	--	--
27...	125	4.5	--	--	0	--	--	5	--	--	2	0
MAY												
25...	60	--	--	--	--	--	--	--	--	--	--	--
25...	95	6.0	--	--	0	--	--	5	--	--	19	0

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	CROSS SECTION LOC-ATION (FT)	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)
NOV.						
25...	1000	40	1.0	220	7.2	13.6
25...	1001	60	1.0	220	7.2	13.9
DEC.						
15...	1000	65	2.2	230	6.6	--
15...	1001	100	2.2	250	6.8	12.6
JAN.						
19...	1000	150	.0	255	6.9	15.6
FEB.						
26...	1000	90	3.3	190	--	13.6
26...	1001	150	3.3	190	--	13.6
MAR.						
16...	1100	60	9.0	210	7.5	11.1
16...	1101	120	9.0	210	7.6	11.0
APR.						
27...	1300	90	11.7	210	8.5	12.0
27...	1301	125	11.8	215	8.6	12.2
MAY						
25...	1000	60	18.5	205	8.0	9.0
25...	1001	95	18.5	205	8.0	8.9

01400510 RARITAN RIVER NEAR MANVILLE, N. J.

LOCATION.--Lat 40°32'34", long 74°34'03", Somerset County, water-quality recorder 400 feet above confluence with Millstone River about 14. miles below gaging station, near Manville.
DRAINAGE AREA.--497 sq mi.
PERIOD OF RECORD.--Chemical analyses: Water year 1963-65 (partial-record station), January 1966 to September 1971.
Water temperatures: November 1967 to January 1968, October 1968 to September 1971.
EXTREMES.--1970-71:
Specific conductance: Maximum, 303 micromhos June 22; minimum, 142 micromhos Oct. 25.
Dissolved oxygen: Maximum, 16.3 mg/l Jan. 13; minimum, 3.6 mg/l Oct. 22.
Temperature: Maximum, 25.0°C July 29.
pH: Maximum, 9.4 Apr. 30, May 4; minimum, 4.9 June 3.
Period of record:
Specific conductance: Maximum, 364 micromhos Jan. 14, 1968; minimum, 99 micromhos Mar. 20-21, 1969.
Dissolved oxygen: Maximum, 16.3 mg/l Jan. 13, 1971; minimum, 2.9 mg/l May 31, 1970.
Temperature: Maximum, 25.0°C July 29, 1971; minimum, freezing point on many days during winter months.
pH: Maximum, 11.1 July 29, 1970; minimum, 4.5 Jan. 25, 1968.
REMARKS.--Prior to 1966 records collected at gaging station (01400500). Records of discharge are given for 01400500 Raritan River at Manville, N.J. Missing continuous water-quality records due to malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
OCT.									
12...	197	3.4	70	20	25	8.9	8.5	--	2.0
NOV.									
16...	2290	--	--	--	17	5.7	--	6.2	--
DEC.									
15...	574	12	230	20	19	7.4	11	--	2.0
JAN.									
15...	531	--	--	--	21	7.6	--	17	--
FEB.									
26...	1420	--	--	--	16	5.6	--	12	--
MAR.									
31...	582	--	--	--	19	6.0	--	13	--
APR.									
16...	630	7.0	80	40	18	6.2	10	--	2.0
MAY									
25...	444	--	--	--	30	5.6	--	6.0	--
JUNE									
29...	265	--	--	--	22	7.7	--	11	--
JULY									
28...	225	6.9	90	15	23	7.6	12	--	2.4
AUG.									
26...	209	--	--	--	25	8.5	--	17	--
SEP.									
23...	1000	13	110	20	20	6.8	11	--	2.1

DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01400510 RARITAN RIVER NEAR MANVILLE, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 12...	138	99	38	240	7.2	0	1.6	--
NOV. 16...	--	66	42	184	6.7	15	1.0	--
DEC. 15...	137	78	37	232	7.6	5	2.4	--
JAN. 15...	--	84	41	263	7.8	4	3.2	--
FEB. 26...	--	63	35	192	6.8	4	1.6	--
MAR. 31...	--	72	33	210	7.6	5	.9	--
APR. 16...	121	71	31	212	7.6	3	1.0	5.0
MAY 25...	--	98	51	233	7.3	6	2.2	--
JUNE 29...	--	87	33	230	7.2	4	3.1	--
JULY 28...	145	89	43	257	6.9	15	1.5	7.0
AUG. 24...	--	98	30	289	7.6	3	1.7	--
SEP. 23...	133	78	27	219	7.2	15	--	5.0

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT. 12...	--	0	--	--	--	--	0	--
SEP. 23...	27	--	30	<0.1	<3	27	<11	<3

DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OCT. 12...	0	0	--	--	--	3	--	[illegible]	--
SEP. 23...	--	[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]	--	[illegible]

DATE	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
OCT. 12...	--	--	--	--	--	--	0	--
SEP. 23...	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01400510 RARITAN RIVER NEAR MANVILLE, N. J.--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.						
12...	0930	17.8	240	7.5	8.0	2370
NOV.						
16...	1030	11.5	175	7.0	10.0	2850
DEC.						
15...	1500	5.9	230	7.0	12.9	1300
JAN.						
15...	1500	.5	--	7.4	14.8	1200
FEB.						
26...	1145	4.1	190	7.3	12.8	625
MAR.						
31...	1045	7.8	220	7.6	12.6	--
APR.						
16...	1145	10.6	220	8.7	12.6	925
MAY						
25...	1045	15.7	220	7.6	8.4	50
JUNE						
29...	1230	22.3	230	7.1	7.4	--
JULY						
28...	1400	23.4	245	6.7	6.7	275
AUG.						
24...	1230	23.7	270	8.0	8.2	306
SEP.						
23...	1345	18.0	215	7.2	8.6	--

01400510 RARITAN RIVER NEAR MANVILLE, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	258	245	250	260	256	259	219	211	215	---	---	---
2	258	247	253	261	241	253	223	207	215	---	---	---
3	263	246	255	242	236	239	227	215	221	---	---	---
4	273	248	256	244	196	238	235	220	229	---	---	---
5	253	232	243	208	159	180	249	231	237	---	---	---
6	252	233	241	204	193	---	255	227	238	---	---	---
7	239	229	233	214	198	208	255	219	241	---	---	---
8	240	227	235	219	197	212	252	234	247	---	---	---
9	239	233	236	242	221	230	269	247	255	---	---	---
10	236	223	231	244	233	235	270	244	263	---	---	---
11	229	223	227	242	233	235	277	256	268	---	---	---
12	222	209	217	250	221	236	260	224	247	232	219	---
13	219	212	216	225	173	194	233	216	224	230	214	224
14	233	213	220	178	171	173	221	216	218	250	223	231
15	250	220	227	192	147	164	222	211	219	254	231	242
16	228	210	217	189	150	173	240	216	226	272	248	260
17	231	211	218	195	184	191	261	170	199	281	252	264
18	226	217	220	205	195	201	199	144	187	---	---	---
19	240	226	233	208	199	203	205	198	192	---	---	---
20	244	238	241	201	192	199	209	200	204	---	---	---
21	245	240	243	205	173	191	218	205	210	---	---	---
22	252	175	215	196	169	186	229	201	221	---	---	---
23	---	---	---	205	165	189	252	227	235	---	---	---
24	---	---	---	211	192	202	279	248	261	---	---	---
25	190	162	177	225	201	213	298	276	287	---	---	---
26	221	203	215	225	214	220	289	256	273	---	---	---
27	237	221	229	224	210	217	264	249	257	---	---	---
28	246	235	238	220	205	212	---	---	---	---	---	---
29	256	245	252	217	202	209	---	---	---	---	---	---
30	270	257	---	221	208	213	---	---	---	---	---	---
31	268	255	---	---	---	---	---	---	---	---	---	---
MONTH	273	162	231	261	147	209	298	144	233	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
2	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
3	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
4	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
5	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
6	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
7	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
8	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
9	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
10	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
11	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
12	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
13	---	---	---	---	---	---	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]
14	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
MONTH	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01400510 RARITAN RIVER NEAR MANVILLE, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	210	180	194	---	---	---	---	---	---	---	---	---
2	214	190	199	---	---	---	---	---	---	---	---	---
3	214	208	211	---	---	---	---	---	---	---	---	---
4	222	209	213	---	---	---	---	---	---	---	---	---
5	222	208	212	---	---	---	---	---	---	---	---	---
6	222	212	217	---	---	---	---	---	---	---	---	---
7	228	218	222	---	---	---	---	---	---	---	---	---
8	234	230	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	261	249	258	---	---	---	---	---	---	---	---	---
11	275	256	264	---	---	---	---	---	---	---	---	---
12	267	260	263	---	---	---	---	---	---	---	---	---
13	272	259	266	---	---	---	---	---	---	---	---	---
14	273	262	268	---	---	---	---	---	---	---	---	---
15	280	256	267	---	---	---	---	---	---	---	---	---
16	276	257	265	---	---	---	---	---	---	---	---	---
17	271	256	263	---	---	---	---	---	---	---	---	---
18	283	259	270	---	---	---	---	---	---	---	---	---
19	273	251	266	---	---	---	---	---	---	---	---	---
20	281	259	270	---	---	---	---	---	---	---	---	---
21	282	260	269	---	---	---	---	---	---	---	---	---
22	303	271	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	---	---	---
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
30	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
31	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---	---
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---

01400510 RARITAN RIVER NEAR MANVILLE, N. J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	12.5	9.3	11.4
2	---	---	---	---	---	---	---	---	---	11.3	10.1	10.7
3	---	---	---	---	---	---	---	---	---	11.0	9.8	10.4
4	---	---	---	---	---	---	---	---	---	11.2	9.8	10.5
5	---	---	---	---	---	---	---	---	---	11.5	9.8	10.6
6	---	---	---	---	---	---	---	---	---	9.9	8.4	9.0
7	---	---	---	---	---	---	---	---	---	11.3	8.7	10.0
8	---	---	---	---	---	---	---	---	---	10.0	8.0	8.7
9	---	---	---	---	---	---	---	---	---	9.6	8.1	8.9
10	---	---	---	---	---	---	---	---	---	10.8	9.3	9.7
11	---	---	---	---	---	---	---	---	---	10.2	8.4	9.2
12	---	---	---	---	---	---	---	---	---	8.4	7.1	7.9
13	---	---	---	---	---	---	15.3	12.9	---	7.4	6.4	7.2
14	---	---	---	---	---	---	15.0	11.1	12.9	8.4	7.2	8.0
15	---	---	---	---	---	---	15.4	11.7	13.4	9.1	7.6	8.3
16	---	---	---	---	---	---	15.4	11.3	13.6	8.6	7.5	8.0
17	---	---	---	---	---	---	15.7	11.7	13.8	8.9	7.8	8.3
18	---	---	---	---	---	---	15.5	11.6	13.4	8.9	7.3	8.1
19	---	---	---	---	---	---	14.0	10.1	12.1	8.3	6.8	7.5
20	---	---	---	---	---	---	13.8	8.9	11.1	7.9	6.4	7.1
21	---	---	---	---	---	---	11.9	9.4	10.3	7.2	6.4	6.7
22	---	---	---	---	---	---	11.2	9.2	10.2	8.4	6.8	7.6
23	---	---	---	---	---	---	12.0	10.0	11.0	9.1	7.3	8.1
24	---	---	---	---	---	---	11.8	9.8	10.6	8.7	7.3	7.9
25	---	---	---	---	---	---	11.9	9.8	10.8	9.4	6.9	8.3
26	---	---	---	---	---	---	12.0	10.6	11.3	9.0	7.3	8.3
27	---	---	---	---	---	---	13.3	10.6	11.7	9.2	7.5	8.3
28	---	---	---	---	---	---	11.2	9.6	10.4	9.0	8.0	8.8
29	---	---	---	---	---	---	11.3	9.8	10.5	9.7	7.9	8.8
30	---	---	---	---	---	---	12.2	10.6	11.3	8.1	7.2	7.6
31	---	---	---	---	---	---	---	---	---	7.0	7.2	7.4
MONTH	---	---	---	---	---	---	---	---	---	12.5	6.4	8.6

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	---	---	---
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	---	---	---
7	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
8	[illegible]	[illegible]	---	[illegible]	[illegible]	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---	---
16	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
17	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
18	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
19	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
20	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
21	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
22	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	[illegible]	[illegible]	---	---	---	---	---	---	---
28	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
29	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
30	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
31	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01400510 RARITAN RIVER NEAR MANVILLE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.5	16.5	17.0	13.5	12.0	13.0	9.0	8.5	8.5	---	---	---
2	17.0	16.0	16.5	13.5	13.0	13.0	9.5	8.0	9.0	---	---	---
3	17.5	16.5	17.0	13.0	12.5	13.0	9.5	8.5	9.0	---	---	---
4	17.5	16.5	17.0	13.0	12.5	13.0	10.0	9.0	9.5	---	---	---
5	16.5	16.0	16.5	12.5	10.0	12.0	9.5	8.5	9.0	---	---	---
6	16.5	16.0	16.5	12.0	9.0	11.0	8.5	8.0	8.5	---	---	---
7	17.0	16.0	16.5	12.0	11.0	12.0	8.0	6.5	7.5	---	---	---
8	17.5	16.0	17.0	12.0	11.5	12.0	6.5	3.5	5.0	---	---	---
9	17.5	16.5	17.0	11.5	11.0	11.5	6.0	4.5	5.5	---	---	---
10	18.0	17.0	17.5	12.0	11.0	11.5	7.0	5.5	6.0	---	---	---
11	18.0	17.5	18.0	12.5	12.0	12.5	6.5	5.5	6.0	---	---	---
12	18.5	17.5	18.0	13.0	12.5	13.0	6.5	5.0	6.0	4.5	3.5	---
13	18.5	18.0	18.0	13.0	12.5	12.5	6.0	5.5	6.0	4.0	2.5	3.5
14	19.0	18.0	18.5	12.5	12.0	12.0	5.5	5.0	5.5	3.5	3.0	3.0
15	18.5	18.5	18.5	12.0	12.0	12.0	6.0	5.0	5.5	3.0	2.5	3.0
16	18.5	16.5	17.5	12.0	10.5	11.5	5.5	5.0	5.5	3.5	2.0	3.0
17	17.0	15.0	16.0	11.0	10.0	10.5	5.0	4.5	4.5	3.0	2.0	2.5
18	15.5	14.5	15.0	10.0	9.0	9.5	5.0	4.5	5.0	---	---	---
19	15.0	14.0	14.5	10.5	9.5	10.0	5.5	4.5	5.0	---	---	---
20	14.0	13.5	14.0	10.5	9.0	10.0	6.0	5.5	5.5	---	---	---
21	14.5	14.0	14.0	10.5	9.0	10.0	5.5	5.0	5.0	---	---	---
22	15.5	14.5	15.0	11.0	9.0	10.0	5.5	4.5	5.0	---	---	---
23	16.0	15.0	15.5	11.0	8.5	9.5	5.0	5.0	5.0	---	---	---
24	16.0	15.0	15.5	9.5	8.5	9.0	5.0	4.5	5.0	---	---	---
25	15.5	15.5	15.5	8.5	7.0	8.0	5.0	4.5	4.5	---	---	---
26	15.5	14.5	15.0	8.5	8.0	8.0	4.5	4.0	4.0	---	---	---
27	14.5	14.0	14.5	8.0	7.5	8.0	4.5	3.5	4.0	---	---	---
28	14.0	13.5	14.0	9.0	8.0	8.5	---	---	---	---	---	---
29	13.5	13.0	13.5	8.5	8.0	8.5	---	---	---	---	---	---
30	13.5	11.5	12.5	9.0	8.5	8.5	---	---	---	---	---	---
31	13.0	12.0	12.5	---	---	---	---	---	---	---	---	---
MONTH	19.0	11.5	16.0	13.5	7.0	10.5	10.0	3.5	6.0	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	11.5	9.5	10.5
2	---	---	---	---	---	---	---	---	---	11.5	10.5	11.0
3	---	---	---	---	---	---	---	---	---	12.0	10.0	11.0
4	---	---	---	---	---	---	---	---	---	12.0	10.5	12.0
5	---	---	---	---	---	---	---	---	---	13.0	10.0	11.5
6	---	---	---	---	---	---	---	---	---	13.0	12.0	12.5
7	---	---	---	---	---	---	---	---	---	13.0	11.5	12.0
8	---	---	---	---	---	---	---	---	---	12.5	12.0	12.5
9	---	---	---	---	---	---	---	---	---	13.0	12.0	12.0
10	---	---	---	---	---	---	---	---	---	13.0	11.5	12.5
11	---	---	---	---	---	---	---	---	---	15.5	12.5	14.0
12	---	---	---	---	---	---	---	---	---	15.5	14.0	14.5
13	---	---	---	---	---	---	9.0	8.0	---	14.5	13.5	14.0
14	---	---	---	---	---	---	10.5	8.0	9.5	14.0	12.5	13.5
15	---	---	---	---	---	---	9.0	8.0	8.5	14.5	13.5	14.0
16	---	---	---	---	---	---	8.5	7.5	8.0	13.5	12.5	13.5
17	---	---	---	---	---	---	8.5	7.5	8.0	14.5	12.5	13.5
18	---	---	---	---	---	---	10.0	8.0	9.0	[illegible]	14.0	15.0
19	---	---	---	---	---	---	11.0	8.5	10.5	17.0	15.5	16.5
20	---	---	---	---	---	---	12.5	9.0	11.0	17.0	15.5	16.0
21	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	---	---	---	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]
MONTH	---	---	---	---	---	---	---	---	---	[illegible]	9.5	[illegible]

01400510 RARITAN RIVER NEAR MANVILLE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	15.0	16.0	23.5	21.5	---	24.5	22.5	23.5	---	---	---
2	17.0	15.0	16.0	22.0	20.5	21.5	23.0	22.0	22.5	---	---	---
3	18.0	16.0	17.0	22.5	21.0	21.5	23.0	22.0	22.5	---	---	---
4	19.0	16.5	18.0	22.0	20.5	21.5	22.5	21.5	22.0	---	---	---
5	20.0	18.0	19.0	22.0	20.5	21.5	22.0	21.0	21.5	---	---	---
6	19.5	18.0	19.0	21.5	21.0	---	22.5	21.0	22.0	---	---	---
7	21.0	18.5	19.5	---	---	---	---	---	---	---	---	---
8	21.5	19.5	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	22.5	20.0	---	---	---	---	---	---	---	---	---	---
11	22.0	20.0	21.0	---	---	---	---	---	---	---	---	---
12	22.0	20.0	21.0	---	---	---	---	---	---	---	---	---
13	22.0	20.5	21.5	---	---	---	---	---	---	---	---	---
14	21.5	19.5	20.5	---	---	---	---	---	---	---	---	---
15	19.5	17.5	19.0	---	---	---	---	---	---	---	---	---
16	19.0	17.5	18.0	---	---	---	---	---	---	---	---	---
17	20.0	18.0	19.0	---	---	---	---	---	---	---	---	---
18	20.5	18.5	20.0	---	---	---	---	---	---	---	---	---
19	20.5	18.0	20.0	---	---	---	---	---	---	---	---	---
20	21.0	19.5	20.5	---	---	---	---	---	---	---	---	---
21	21.5	20.5	21.0	---	---	---	---	---	---	---	---	---
22	22.0	21.0	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	23.5	22.0	22.0	---	---	---	---	---	---
28	---	---	---	24.0	21.0	22.0	---	---	---	---	---	---
29	---	---	---	25.0	22.0	23.5	---	---	---	---	---	---
30	---	---	---	24.0	21.5	22.5	---	---	---	---	---	---
31	---	---	---	24.5	22.0	23.0	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.8	7.5	7.7	---	---	---	---	---	---	---	---	---
2	7.8	7.7	7.8	---	---	---	---	---	---	---	---	---
3	7.9	7.5	7.7	---	---	---	---	---	---	---	---	---
4	8.0	7.8	7.9	---	---	---	---	---	---	---	---	---
5	8.0	6.9	7.7	---	---	---	---	---	---	---	---	---
6	7.7	6.2	6.8	---	---	---	---	---	---	---	---	---
7	8.5	6.6	7.7	---	---	---	---	---	---	---	---	---
8	8.3	7.6	8.0	---	---	---	---	---	---	---	---	---
9	8.3	7.2	7.8	---	---	---	---	---	---	---	---	---
10	8.3	6.8	7.8	---	---	---	---	---	---	---	---	---
11	7.9	7.1	7.8	---	---	---	---	---	---	---	---	---
12	7.6	6.9	7.3	---	---	---	---	---	---	---	---	---
13	7.1	6.5	6.8	---	---	---	---	---	---	---	---	---
14	7.7	6.6	7.0	---	---	---	---	---	---	---	---	---
15	7.3	6.7	6.9	---	---	---	---	---	---	---	---	---
16	6.9	6.7	6.8	---	---	---	---	---	---	---	---	---
17	7.6	6.9	7.2	---	---	---	---	---	---	---	---	---
18	7.6	7.1	7.2	---	---	---	---	---	---	---	---	---
19	7.1	6.5	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01400510 RARITAN RIVER NEAR MANVILLE, N. J.--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	9.2	8.7	9.1
2	---	---	---	---	---	---	---	---	---	9.3	7.8	8.8
3	---	---	---	---	---	---	---	---	---	8.8	7.4	8.1
4	---	---	---	---	---	---	---	---	---	9.4	8.3	8.8
5	---	---	---	---	---	---	---	---	---	9.2	8.7	9.0
6	---	---	---	---	---	---	---	---	---	8.8	7.7	8.3
7	---	---	---	---	---	---	---	---	---	8.5	7.2	7.8
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	8.3	6.9	---	---	---	---
14	---	---	---	---	---	---	8.7	6.5	7.9	---	---	---
15	---	---	---	---	---	---	8.8	8.0	8.5	---	---	---
16	---	---	---	---	---	---	9.2	7.7	8.6	---	---	---
17	---	---	---	---	---	---	9.0	7.6	8.4	---	---	---
18	---	---	---	---	---	---	9.0	8.4	8.7	---	---	---
19	---	---	---	---	---	---	8.9	7.8	8.7	---	---	---
20	---	---	---	---	---	---	9.1	8.4	8.8	---	---	---
21	---	---	---	---	---	---	9.0	7.8	8.6	---	---	---
22	---	---	---	---	---	---	9.1	8.5	8.9	---	---	---
23	---	---	---	---	---	---	9.0	8.3	8.8	---	---	---
24	---	---	---	---	---	---	9.0	8.5	8.8	---	---	---
25	---	---	---	---	---	---	8.9	8.5	8.7	8.9	7.4	8.0
26	---	---	---	---	---	---	8.9	8.5	8.7	8.0	6.4	7.4
27	---	---	---	---	---	---	9.2	7.0	8.0	7.7	7.4	7.5
28	---	---	---	---	---	---	9.1	6.9	8.2	8.9	7.2	7.9
29	---	---	---	---	---	---	8.4	6.9	7.8	8.2	7.5	7.8
30	---	---	---	---	---	---	9.4	7.7	8.5	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	6.4	---	---	---	---	---	---	---	---	---	---
2	6.9	6.2	6.7	---	---	---	---	---	---	---	---	---
3	6.8	4.9	5.9	---	---	---	---	---	---	---	---	---
4	7.4	5.1	6.3	---	---	---	---	---	---	---	---	---
5	7.0	6.3	6.6	---	---	---	---	---	---	---	---	---
6	7.0	6.6	6.8	---	---	---	---	---	---	---	---	---
7	6.9	6.4	6.6	---	---	---	---	---	---	---	---	---
8	6.7	6.5	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	7.1	6.6	6.8	---	---	---	---	---	---	---	---	---
11	8.1	6.7	7.0	---	---	---	---	---	---	---	---	---
12	7.2	6.7	6.9	---	---	---	---	---	---	---	---	---
13	7.6	6.4	6.8	---	---	---	---	---	---	---	---	---
14	7.3	6.2	6.6	---	---	---	---	---	---	---	---	---
15	7.1	6.3	6.7	---	---	---	---	---	---	---	---	---
16	7.8	6.3	6.9	---	---	---	---	---	---	---	---	---
17	7.2	6.8	7.0	---	---	---	---	---	---	---	---	---
18	7.6	6.3	6.9	---	---	---	---	---	---	---	---	---
19	7.1	6.5	6.8	---	---	---	---	---	---	---	---	---
20	6.9	6.3	6.7	---	---	---	---	---	---	---	---	---
21	6.9	6.2	6.6	---	---	---	---	---	---	---	---	---
22	7.1	5.9	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.

LOCATION.--Lat 40°32'33", long 74°34'03", Somerset County, at water-quality recorder 200 feet above confluence with Raritan River about 6.4 miles below gaging station, near Manville.
DRAINAGE AREA.--287 sq mi.
PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1971.
Water temperatures: October 1968 to September 1971.
EXTREMES.--1970-71:
Specific conductance: Maximum, 366 micromhos Jan. 23; minimum, 129 micromhos Apr. 7.
Dissolved oxygen: Maximum, 15.6 mg/l Jan. 3, 6; minimum, 2.7 mg/l Oct. 20 and June 22.
Temperature: Maximum, 27.0°C July 1; minimum, freezing point on many days during winter months.
pH: Maximum, 8.0 Oct. 7; minimum, 4.5 June 3.
Period of record:
Specific conductance: Maximum, 366 micromhos Jan. 23, 1971; minimum, 89 micromhos July 28, 1969.
Dissolved oxygen: Maximum, 15.6 mg/l Jan. 3, 6, 1971; minimum, 1.5 mg/l Aug. 5, 1970.
Temperature: Maximum, 29.0°C July 18, 1969; minimum, freezing point on many days during winter months.
pH: Maximum, 11.6 June 26, 1968; minimum, 4.5 June 3, 1971.
REMARKS.--Records of discharge are given for 01402000 Millstone River at Blackwells Mills, N.J. Missing continuous water-quality records due to malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
OCT. 12...	48	4.4	50	80	18	6.2	14	--	3.8
NOV. 16...	1210	--	--	--	15	5.9	--	8.0	--
DEC. 15...	228	13	110	85	17	7.3	12	--	3.0
JAN. 15...	237	--	--	--	17	7.0	--	17	--
FEB. 26...	570	--	--	--	12	5.0	--	13	--
MAR. 31...	196	--	--	--	16	5.5	--	21	--
APR. 16...	251	8.9	1300	120	13	5.8	11	--	2.7
MAY 25...	179	--	--	--	16	5.0	--	14	--
JUNE 29...	37	--	--	--	21	8.1	--	22	--
JULY 28...	48	3.6	50	5	23	7.5	16	--	3.8
AUG. 24...	59	--	--	--	19	7.2	--	21	--
SEP. 23...	371	13	350	120	16	6.2	13	--	4.5

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT. 12...	49	0	30	36	19	.3	12	1.3	154
NOV. 16...	23	0	19	30	18	--	8.1	.93	--
DEC. 15...	31	0	25	45	16	.2	14	.89	146
JAN. 15...	22	0	18	40	23	--	12	.98	--
FEB. 26...	14	0	11	36	19	--	12	.35	--
MAR. 31...	18	0	15	40	17	--	24	.77	--
APR. 16...	21	0	17	42	18	.0	8.0	.08	161
MAY 25...	28	0	23	48	14	--	7.0	.52	--
JUNE 29...	54	0	44	52	22	--	8.7	2.1	--
JULY 28...	63	0	52	38	25	.3	6.5	2.1	188
AUG. 24...	65	0	44	42	23	--	9.6	1.2	--
SEP. 23...	31	0	25	34	13	.4	6.2	.36	129

01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 12...	137	71	31	242	7.8	3	4.9	--
NOV. 16...	--	62	43	192	7.2	15	2.2	--
DEC. 15...	143	73	47	229	7.2	5	1.3	--
JAN. 15...	--	72	54	241	6.9	4	3.6	--
FEB. 26...	--	51	39	176	6.6	8	2.2	--
MAR. 31...	--	63	48	222	7.2	3	2.0	--
APR. 16...	115	57	40	205	7.5	7	1.4	4.5
MAY 25...	--	61	38	201	6.6	7	2.5	--
JUNE 29...	--	86	42	289	6.7	5	6.9	--
JULY 28...	155	89	37	288	6.6	10	5.1	11
AUG. 24...	--	77	37	280	7.1	6	4.5	--
SEP. 23...	129	66	40	194	6.7	15	--	5.5

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
OCT. 12...	--	--	--	--	--	0	--	0	1	--	--	--
SEP. 23...	67	58	<0.5	<3	51	<11	5	--	<2	6	<2	<3

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT. 12...	5	--	.0	--	--	--	--	--	--	--	10	--
SEP. 23...	3	<10	--	2	8	<0.2	130	<3	10	1.0	<110	<5

01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 12...	0900	18.0	240	7.4	5.2	4750
NOV. 16...	1000	10.7	180	6.6	8.2	19500
DEC. 15...	1600	3.6	220	6.6	12.4	1150
JAN. 15...	1500	1.3	--	7.3	13.2	350
FEB. 26...	1130	3.8	185	7.3	12.2	138
MAR. 31...	1115	8.7	230	7.3	12.0	25
APR. 16...	1200	11.1	210	8.3	10.8	2150
MAY 25...	1030	17.3	200	6.4	7.5	450
JUNE 29...	1200	24.5	320	6.7	7.8	--
JULY 28...	1430	24.5	270	6.9	8.9	600
AUG. 24...	1245	22.7	265	6.9	9.2	1150
SEP. 23...	1400	19.0	200	6.7	7.0	--

01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	295	280	285	226	210	219	256	243	249
2	---	---	---	296	268	282	224	207	215	269	251	260
3	---	---	---	276	269	273	237	208	225	275	247	259
4	---	---	---	279	218	266	247	227	236	314	247	263
5	327	263	306	218	144	172	250	233	242	249	164	194
6	298	261	282	215	176	196	255	239	247	197	168	179
7	318	266	292	219	208	214	267	226	251	199	179	189
8	327	264	296	221	208	215	249	233	245	209	200	206
9	295	245	273	236	219	229	252	241	248	209	203	205
10	290	241	266	235	229	232	270	242	259	206	190	201
11	281	240	257	245	229	236	273	256	264	206	197	204
12	284	240	258	247	232	241	258	242	250	216	204	209
13	297	257	274	228	176	207	247	221	234	222	209	216
14	319	264	283	191	170	181	224	215	219	247	206	225
15	348	284	320	190	149	170	223	217	219	243	229	236
16	335	295	310	186	164	174	259	216	231	252	242	248
17	318	281	301	201	189	193	217	137	169	259	246	254
18	317	284	304	204	196	200	180	167	175	258	251	254
19	354	318	339	209	201	204	189	171	179	262	255	258
20	356	318	340	206	182	201	201	163	180	275	261	267
21	322	301	313	204	162	190	203	162	195	284	277	280
22	303	206	252	197	174	191	218	198	206	290	280	285
23	---	---	---	212	167	198	233	207	218	366	286	318
24	---	---	---	212	197	205	269	225	242	316	294	306
25	236	172	211	219	206	214	264	254	259	354	306	323
26	269	241	256	229	219	222	255	234	241	332	294	---
27	270	265	268	229	219	222	236	231	233	---	---	---
28	274	266	271	221	207	214	---	---	---	---	---	---
29	274	264	268	219	200	209	239	230	---	---	---	---
30	276	273	---	225	217	222	249	238	245	---	---	---
31	287	282	---	---	---	---	255	244	247	---	---	---
MONTH	356	172	---	296	144	215	273	137	227	366	164	243

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	231	216	226	240	234	237
2	---	---	---	---	---	---	233	222	228	240	226	232
3	---	---	---	---	---	---	239	226	233	238	228	232
4	---	---	---	---	---	---	239	231	235	232	224	226
5	---	---	---	---	---	---	235	228	232	244	226	232
6	---	---	---	---	---	---	234	216	228	244	226	234
7	---	---	---	---	---	---	219	120	162	246	228	238
8	---	---	---	---	---	---	158	142	147	244	228	236
9	---	---	---	---	---	---	162	148	156	220	196	225
10	---	---	---	---	---	---	172	163	167	266	197	200
11	---	---	---	---	---	---	170	170	172	211	206	208
12	---	---	---	---	---	---	181	173	176	227	214	223
13	---	---	---	---	---	---	193	180	185	225	199	214
14	---	---	---	---	---	---	202	178	191	211	167	176
15	---	---	---	---	---	---	208	194	199	203	183	191
16	---	---	---	---	---	---	213	197	206	204	158	189
17	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	---	---	---	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	---	---	---	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]
MONTH	---	---	---	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	231	220	225	---	---	---	---	---	---	---	---	---
2	220	210	216	---	---	---	---	---	---	---	---	---
3	227	210	216	---	---	---	---	---	---	---	---	---
4	232	214	224	---	---	---	---	---	---	---	---	---
5	236	215	225	---	---	---	---	---	---	---	---	---
6	237	225	232	---	---	---	---	---	---	---	---	---
7	248	226	232	---	---	---	---	---	---	---	---	---
8	248	243	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	251	241	---	---	---	---	---	---	---	---	---	---
11	259	244	253	---	---	---	---	---	---	---	---	---
12	257	240	250	---	---	---	---	---	---	---	---	---
13	261	245	255	---	---	---	---	---	---	---	---	---
14	269	259	264	---	---	---	---	---	---	---	---	---
15	295	268	278	---	---	---	---	---	---	---	---	---
16	299	279	290	---	---	---	---	---	---	---	---	---
17	280	264	271	---	---	---	---	---	---	---	---	---
18	298	271	282	---	---	---	---	---	---	---	---	---
19	303	288	298	---	---	---	---	---	---	---	---	---
20	300	272	292	---	---	---	---	---	---	---	---	---
21	294	282	289	---	---	---	---	---	---	---	---	---
22	302	292	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	5.6	4.8	5.4	10.5	9.9	10.3	15.2	14.7	15.0
2	---	---	---	5.8	4.8	5.1	10.9	9.8	10.4	15.5	14.7	15.0
3	---	---	---	5.0	4.6	4.8	10.7	8.8	9.8	15.6	14.7	15.1
4	---	---	---	6.6	4.5	4.9	9.2	8.7	9.0	15.3	14.6	14.9
5	7.4	5.0	---	8.8	5.9	7.1	10.1	9.0	9.4	15.2	14.7	15.0
6	7.5	6.1	6.7	9.1	8.5	8.8	10.6	9.0	9.9	15.6	14.7	15.2
7	6.8	5.3	6.0	9.2	8.4	9.0	12.6	10.4	11.7	15.3	14.8	14.9
8	6.1	4.8	5.5	8.7	8.0	8.3	12.5	11.7	12.0	15.1	14.5	14.8
9	6.4	5.0	5.5	8.9	8.3	8.5	12.3	11.4	11.8	14.7	14.0	14.4
10	6.4	4.7	5.5	8.8	8.0	8.5	12.4	11.7	12.0	14.4	13.6	14.0
11	6.2	4.6	5.5	7.9	6.5	7.4	11.9	10.7	11.3	13.6	11.9	13.0
12	5.6	4.5	4.9	6.7	6.1	6.4	11.4	10.8	11.1	13.5	11.6	12.4
13	5.1	4.4	4.7	7.4	5.9	6.7	11.2	10.6	10.9	13.1	11.4	12.1
14	5.0	4.2	4.6	8.1	6.6	7.5	11.5	10.6	10.9	11.7	11.3	11.5
15	4.6	3.1	3.7	8.7	8.0	8.3	13.3	11.0	12.0	11.9	11.4	11.6
16	4.5	3.3	4.0	8.8	7.9	8.3	13.9	13.0	13.3	12.0	11.6	11.7
17	4.8	3.4	4.0	9.6	9.1	9.3	14.2	11.6	12.8	12.5	11.8	12.2
18	4.7	3.7	4.2	9.8	9.5	9.6	12.6	11.5	12.2	---	---	---
19	4.8	3.5	3.5	10.0	9.9	9.6	13.2	10.3	12.4	---	---	---
20	4.0	2.7	3.3	9.7	8.9	9.4	11.1	10.4	10.8	---	---	---
21	3.9	3.1	3.4	9.4	8.6	9.0	11.8	10.7	11.2	---	---	---
22	5.0	3.3	4.1	9.2	9.0	9.1	12.1	11.4	11.7	---	---	---
23	7.4	4.8	6.3	9.4	8.9	9.1	12.4	11.8	12.1	12.0	10.6	11.3
24	7.8	6.3	7.3	10.0	9.4	9.7	12.3	11.9	12.1	11.7	10.5	11.1
25	6.8	6.2	6.5	11.8	10.0	10.8	12.4	12.0	12.2	11.9	11.0	11.4
26	6.4	5.9	6.2	12.5	10.9	11.3	12.2	10.8	11.5	12.4	11.4	---
27	6.5	6.0	6.3	11.6	10.1	10.8	12.2	10.8	11.6	---	---	---
28	6.8	6.0	6.4	10.9	9.5	10.2	---	---	---	---	---	---
29	6.8	5.7	6.3	11.3	9.5	10.4	13.4	12.9	---	---	---	---
30	5.9	5.7	---	10.8	10.3	10.5	14.7	13.3	14.2	---	---	---
31	6.1	5.1	---	---	---	---	15.2	14.1	14.7	---	---	---
MONTH	7.8	2.7	---	12.5	4.5	8.5	15.2	8.7	11.6	---	---	---

01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	13.3	10.2	11.2	10.5	9.1	9.7
2	---	---	---	---	---	---	13.0	10.6	11.5	10.3	8.3	9.4
3	---	---	---	---	---	---	10.8	9.6	10.3	9.7	8.1	8.8
4	---	---	---	---	---	---	9.7	8.5	9.0	9.9	8.1	8.9
5	---	---	---	---	---	---	10.2	7.7	8.7	10.1	7.9	9.0
6	---	---	---	---	---	---	10.5	9.1	9.7	9.1	7.1	8.2
7	---	---	---	---	---	---	11.4	9.9	10.7	9.7	6.8	8.0
8	---	---	---	---	---	---	10.8	10.1	10.4	7.5	6.9	7.1
9	---	---	---	---	---	---	11.2	9.4	10.9	7.9	6.3	7.2
10	---	---	---	---	---	---	11.6	10.5	10.9	8.8	7.5	7.9
11	---	---	---	---	---	---	---	---	---	8.6	7.2	7.8
12	---	---	---	---	---	---	---	---	---	7.6	6.5	7.0
13	---	---	---	---	---	---	12.2	10.4	---	6.6	5.5	6.1
14	---	---	---	---	---	---	11.6	10.2	10.8	7.8	6.0	7.1
15	---	---	---	---	---	---	11.9	10.3	11.2	7.6	6.6	7.2
16	---	---	---	---	---	---	11.4	10.1	10.8	7.6	6.5	7.1
17	---	---	---	---	---	---	11.4	9.8	10.6	7.6	7.2	7.4
18	---	---	---	---	---	---	11.2	9.4	10.3	7.2	6.5	6.7
19	---	---	---	---	---	---	11.1	9.0	10.0	6.5	5.4	6.2
20	---	---	---	---	---	---	11.9	8.6	10.0	6.4	5.5	5.9
21	---	---	---	---	---	---	10.8	8.8	9.7	5.9	5.2	5.6
22	---	---	---	---	---	---	11.0	9.0	9.8	6.4	5.1	5.8
23	---	---	---	13.0	10.6	---	12.2	8.0	10.5	7.0	5.4	6.2
24	---	---	---	13.5	11.4	12.6	11.8	8.6	9.9	6.3	5.8	6.0
25	---	---	---	13.4	11.4	12.6	11.0	8.4	9.6	7.1	5.6	6.3
26	---	---	---	13.0	11.8	12.4	11.0	8.4	9.6	6.7	5.0	5.9
27	---	---	---	14.2	11.9	13.0	12.5	8.6	10.2	6.9	5.4	6.1
28	---	---	---	13.2	12.2	12.7	10.8	8.8	10.0	6.3	5.0	5.6
29	---	---	---	12.3	11.4	11.8	9.6	8.3	8.9	6.0	4.9	5.4
30	---	---	---	14.1	11.1	12.3	9.6	8.3	9.1	5.3	4.7	5.0
31	---	---	---	12.9	11.5	12.2	---	---	---	5.4	4.7	5.1
MONTH	---	---	---	---	---	---	13.3	7.7	10.2	10.5	4.7	7.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	5.1	5.5	10.9	7.6	---	5.9	5.0	5.5	---	---	---
2	6.0	5.1	5.5	8.6	3.8	6.0	5.6	5.2	5.4	---	---	---
3	6.5	4.8	5.7	8.7	4.2	6.1	5.8	5.3	5.5	---	---	---
4	7.7	4.4	5.8	8.5	4.9	6.8	5.8	5.3	5.5	---	---	---
5	8.3	4.2	6.2	9.5	4.9	7.0	6.0	5.4	5.6	---	---	---
6	10.2	4.9	7.0	7.7	5.0	---	5.8	4.6	5.5	---	---	---
7	11.3	5.8	8.3	---	---	---	---	---	---	---	---	---
8	6.6	5.2	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	11.2	4.6	7.5	---	---	---	---	---	---	---	---	---
11	11.5	4.7	7.6	---	---	---	---	---	---	---	---	---
12	10.9	5.0	7.7	---	---	---	---	---	---	---	---	---
13	9.2	4.4	6.8	---	---	---	---	---	---	---	---	---
14	6.6	3.9	5.1	---	---	---	---	---	---	---	---	---
15	5.2	3.4	4.4	---	---	---	---	---	---	---	---	---
16	6.1	3.4	4.6	---	---	---	---	---	---	---	---	---
17	6.4	3.9	5.0	---	---	---	---	---	---	---	---	---
18	6.4	3.7	4.8	---	---	---	---	---	---	---	---	---
19	5.9	3.0	4.3	---	---	---	---	---	---	---	---	---
20	6.6	2.9	4.6	---	---	---	---	---	---	---	---	---
21	6.6	3.2	4.8	---	---	---	---	---	---	---	---	---
22	7.1	2.7	4.8	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	10.5	8.0	---	---	---	---	---	---	---
28	---	---	---	11.6	5.8	8.5	---	---	---	---	---	---
29	---	---	---	9.6	6.1	7.5	---	---	---	---	---	---
30	---	---	---	6.5	5.1	5.7	---	---	---	---	---	---
31	---	---	---	5.7	4.8	5.5	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	12.5	11.0	11.5	7.5	6.5	7.0	0.5	0.0	0.5
2	---	---	---	12.0	11.5	12.0	8.5	7.0	7.5	1.0	0.0	0.5
3	---	---	---	12.0	11.0	11.5	8.5	7.0	7.5	1.0	0.0	---
4	---	---	---	12.0	11.5	12.0	9.0	7.0	8.5	0.5	0.0	0.0
5	15.5	14.5	---	11.5	9.5	11.0	7.0	6.0	6.5	1.5	0.5	1.0
6	16.0	15.0	15.5	10.5	9.0	10.0	6.0	3.5	5.0	1.0	0.5	0.5
7	16.5	15.5	16.0	10.5	8.5	9.5	3.5	1.5	3.0	0.5	0.0	0.5
8	17.0	15.5	16.5	10.5	9.5	10.0	1.5	1.0	1.5	0.5	0.0	0.0
9	17.0	16.0	16.5	10.5	8.5	9.5	2.5	1.5	2.0	0.5	0.0	0.5
10	18.0	16.5	17.5	11.0	9.5	10.5	3.5	2.0	2.5	1.5	0.5	1.0
11	18.5	17.5	18.0	12.5	11.0	12.0	3.0	2.5	3.0	2.5	1.0	2.0
12	19.0	17.5	18.5	13.5	12.5	13.0	3.0	3.0	3.0	3.0	1.5	2.0
13	19.5	18.5	19.0	13.5	11.5	12.5	3.0	3.0	3.0	1.5	0.5	1.0
14	19.5	19.0	19.5	12.0	11.0	11.5	3.5	3.0	3.0	1.0	0.0	0.5
15	19.5	19.0	19.5	12.0	10.5	11.5	3.5	3.0	3.0	1.5	0.5	1.0
16	19.5	16.5	18.0	11.5	9.5	10.5	2.5	2.5	2.5	1.0	0.0	---
17	16.5	13.5	14.5	10.0	8.0	9.0	4.0	2.5	3.5	---	---	---
18	14.5	13.0	13.5	8.5	7.5	8.0	4.0	3.5	4.0	---	---	---
19	14.0	12.5	13.0	10.0	8.5	9.0	4.5	3.5	4.0	---	---	---
20	13.0	11.0	12.0	10.0	8.0	9.0	5.5	4.5	5.0	---	---	---
21	13.5	12.5	13.0	10.0	8.5	9.0	4.5	3.5	4.0	---	---	---
22	15.5	13.5	14.5	8.5	8.0	8.5	3.5	2.5	3.0	0.5	0.0	0.0
23	16.5	15.5	16.0	10.0	7.0	8.0	2.5	2.0	2.5	1.0	0.0	0.5
24	16.5	15.0	16.0	6.5	4.5	5.5	2.5	2.0	2.0	0.5	0.0	0.0
25	15.5	15.0	15.5	4.0	3.5	4.0	2.5	2.0	2.0	0.5	0.0	0.5
26	15.0	14.0	14.5	4.5	3.0	4.0	2.0	1.5	1.5	0.5	0.0	0.5
27	14.0	12.5	13.5	5.5	4.0	5.0	1.0	0.5	1.0	---	---	---
28	13.0	11.5	12.0	7.0	5.5	6.5	---	---	---	---	---	---
29	11.5	10.0	11.0	7.0	6.5	7.0	1.0	0.0	---	---	---	---
30	11.0	10.5	---	8.0	7.0	7.5	1.0	0.0	0.5	---	---	---
31	11.5	10.5	---	---	---	---	1.0	0.5	---	---	---	---
MONTH	19.5	10.0	---	13.5	3.0	9.5	9.0	0.0	3.5	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	9.0	6.5	7.5	13.5	10.5	12.0
2	---	---	---	---	---	---	10.5	8.0	9.0	13.5	12.0	13.0
3	---	---	---	---	---	---	12.0	9.5	10.5	13.5	12.5	13.0
4	---	---	---	---	---	---	12.5	10.0	11.0	14.0	12.0	13.0
5	---	---	---	---	---	---	11.5	9.5	10.5	15.5	12.0	14.0
6	---	---	---	---	---	---	10.0	6.0	8.5	15.0	14.0	14.5
7	---	---	---	---	---	---	6.0	2.5	4.0	17.0	14.0	15.5
8	---	---	---	---	---	---	7.5	5.0	6.0	15.5	14.0	15.0
9	---	---	---	---	---	---	9.5	5.5	7.5	14.0	13.0	13.5
10	---	---	---	---	---	---	10.5	9.0	9.5	15.5	13.0	14.0
11	---	---	---	---	---	---	11.0	8.0	9.5	17.5	14.5	16.0
12	---	---	---	---	---	---	15.0	8.0	11.5	17.5	16.5	17.0
13	---	---	---	---	---	---	13.0	9.5	11.5	17.0	15.5	16.5
14	---	---	---	---	---	---	14.0	11.5	13.0	16.0	14.0	15.0
15	---	---	---	---	---	---	12.0	10.5	11.5	17.0	15.5	16.0
16	---	---	---	---	---	---	11.0	9.5	10.0	16.0	13.5	15.0
17	---	---	---	---	---	---	12.0	9.0	10.5	16.0	13.5	15.0
18	---	---	---	---	---	---	13.0	10.0	11.5	18.0	15.5	17.0
19	---	---	---	---	---	---	15.0	11.5	13.0	19.5	17.0	18.5
20	---	---	---	---	---	---	16.0	13.0	14.5	19.5	18.5	19.0
21	---	---	---	---	---	---	16.0	14.0	15.0	19.0	16.5	17.5
22	---	---	---	---	---	---	14.5	12.0	14.0	17.0	15.5	16.5
23	---	---	---	7.5	6.5	---	14.0	12.0	13.0	18.0	13.5	16.0
24	---	---	---	6.0	4.5	5.5	14.0	12.0	13.0	18.5	16.0	17.0
25	---	---	---	6.0	3.5	4.5	12.5	11.5	12.0	19.0	16.5	18.0
26	---	---	---	5.0	4.0	4.5	12.0	10.0	11.0	20.0	16.5	18.5
27	---	---	---	6.5	3.5	5.0	13.5	10.0	11.5	19.0	18.0	18.5
28	---	---	---	7.0	4.5	6.0	12.0	11.5	11.5	18.5	17.0	17.5
29	---	---	---	7.5	6.5	7.0	11.5	11.0	11.5	19.0	16.5	18.0
30	---	---	---	9.0	6.5	7.5	12.0	9.5	11.0	18.0	17.0	17.5
31	---	---	---	9.0	6.5	7.5	---	---	---	17.5	16.5	17.0
MONTH	---	---	---	---	---	---	16.0	2.5	11.0	20.0	10.5	16.0

01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	16.5	18.0	27.0	26.0	---	24.5	23.0	24.0	---	---	---
2	19.5	16.0	18.5	26.5	24.5	25.5	23.5	22.5	23.0	---	---	---
3	20.5	18.0	19.5	26.0	23.5	24.5	25.5	23.5	24.0	---	---	---
4	23.0	19.5	21.0	25.5	23.5	24.5	25.0	23.5	24.5	---	---	---
5	24.0	21.0	22.5	25.0	23.0	24.0	24.0	22.5	23.5	---	---	---
6	24.0	21.5	23.0	24.5	23.5	---	24.0	22.0	23.0	---	---	---
7	26.0	22.0	23.5	---	---	---	---	---	---	---	---	---
8	24.0	23.0	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	25.5	22.0	24.0	---	---	---	---	---	---	---	---	---
11	24.5	22.0	23.0	---	---	---	---	---	---	---	---	---
12	24.5	22.0	23.5	---	---	---	---	---	---	---	---	---
13	24.5	22.5	23.5	---	---	---	---	---	---	---	---	---
14	24.0	21.5	22.5	---	---	---	---	---	---	---	---	---
15	21.5	20.0	21.0	---	---	---	---	---	---	---	---	---
16	21.5	19.5	20.5	---	---	---	---	---	---	---	---	---
17	23.0	19.5	21.5	---	---	---	---	---	---	---	---	---
18	24.0	20.5	22.5	---	---	---	---	---	---	---	---	---
19	24.5	21.5	23.0	---	---	---	---	---	---	---	---	---
20	25.0	23.0	24.0	---	---	---	---	---	---	---	---	---
21	25.0	24.0	24.5	---	---	---	---	---	---	---	---	---
22	25.0	24.0	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	26.0	25.0	---	---	---	---	---	---	---
28	---	---	---	25.5	23.0	24.5	---	---	---	---	---	---
29	---	---	---	26.0	24.0	25.0	---	---	---	---	---	---
30	---	---	---	25.5	22.5	23.5	---	---	---	---	---	---
31	---	---	---	24.5	22.0	23.5	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	7.5	6.2	---	---	---	---	---	---	---	---	---	---
6	7.1	5.7	6.4	---	---	---	---	---	---	---	---	---
7	8.0	6.1	7.2	---	---	---	---	---	---	---	---	---
8	7.9	7.0	7.6	---	---	---	---	---	---	---	---	---
9	7.8	6.7	7.5	---	---	---	---	---	---	---	---	---
10	7.8	6.7	7.5	---	---	---	---	---	---	---	---	---
11	7.6	6.9	7.3	---	---	---	---	---	---	---	---	---
12	7.4	6.7	7.0	---	---	---	---	---	---	---	---	---
13	7.0	6.4	6.7	---	---	---	---	---	---	---	---	---
14	7.3	6.5	6.9	---	---	---	---	---	---	---	---	---
15	7.0	6.5	6.7	---	---	---	---	---	---	---	---	---
16	6.8	6.3	---	---	---	---	---	---	---	---	---	---
17	7.2	6.8	7.0	---	---	---	---	---	---	---	---	---
18	7.2	6.8	7.0	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

RARITAN RIVER BASIN

01402900 MILLSTONE RIVER NEAR MANVILLE, N. J.--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	7.2	6.9	7.1
2	---	---	---	---	---	---	---	---	---	7.3	6.0	6.9
3	---	---	---	---	---	---	---	---	---	7.1	5.8	6.6
4	---	---	---	---	---	---	---	---	---	7.5	7.0	7.2
5	---	---	---	---	---	---	---	---	---	7.4	7.1	7.3
6	---	---	---	---	---	---	---	---	---	7.1	6.6	6.8
7	---	---	---	---	---	---	---	---	---	7.3	6.5	6.9
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	6.6	5.9	---	---	---	---
14	---	---	---	---	---	---	6.8	6.2	6.6	---	---	---
15	---	---	---	---	---	---	6.9	6.6	6.7	---	---	---
16	---	---	---	---	---	---	6.9	6.6	6.7	---	---	---
17	---	---	---	---	---	---	6.8	6.5	6.7	---	---	---
18	---	---	---	---	---	---	6.8	6.4	6.7	---	---	---
19	---	---	---	---	---	---	6.7	6.2	6.6	---	---	---
20	---	---	---	---	---	---	6.9	6.5	6.7	---	---	---
21	---	---	---	---	---	---	6.9	6.7	6.8	---	---	---
22	---	---	---	---	---	---	7.2	6.8	6.9	---	---	---
23	---	---	---	---	---	---	7.8	6.8	7.2	---	---	---
24	---	---	---	---	---	---	7.1	6.7	6.9	---	---	---
25	---	---	---	---	---	---	7.1	6.7	6.8	7.3	6.7	---
26	---	---	---	---	---	---	7.0	6.6	6.8	7.8	6.1	7.1
27	---	---	---	---	---	---	7.2	6.7	6.9	7.1	6.9	7.0
28	---	---	---	---	---	---	7.3	5.6	6.9	7.1	6.7	6.9
29	---	---	---	---	---	---	6.8	5.2	6.2	6.9	6.6	6.8
30	---	---	---	---	---	---	7.0	6.2	6.7	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.6	6.3	---	---	---	---	---	---	---	---	---	---
2	6.4	5.8	6.2	---	---	---	---	---	---	---	---	---
3	6.3	4.5	5.6	---	---	---	---	---	---	---	---	---
4	6.6	5.0	6.0	---	---	---	---	---	---	---	---	---
5	6.7	6.0	6.3	---	---	---	---	---	---	---	---	---
6	7.1	6.4	6.6	---	---	---	---	---	---	---	---	---
7	7.4	6.2	6.8	---	---	---	---	---	---	---	---	---
8	6.5	6.3	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	7.2	6.5	6.7	---	---	---	---	---	---	---	---	---
11	7.4	6.5	6.8	---	---	---	---	---	---	---	---	---
12	7.2	6.5	6.8	---	---	---	---	---	---	---	---	---
13	6.9	6.2	6.6	---	---	---	---	---	---	---	---	---
14	6.6	6.0	6.4	---	---	---	---	---	---	---	---	---
15	7.0	6.1	6.4	---	---	---	---	---	---	---	---	---
16	7.0	6.0	6.6	---	---	---	---	---	---	---	---	---
17	6.9	6.5	6.7	---	---	---	---	---	---	---	---	---
18	6.8	6.3	6.6	---	---	---	---	---	---	---	---	---
19	6.7	6.3	6.6	---	---	---	---	---	---	---	---	---
20	6.6	6.4	6.5	---	---	---	---	---	---	---	---	---
21	6.5	6.0	6.3	---	---	---	---	---	---	---	---	---
22	6.2	5.6	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01402920 RARITAN RIVER AT TECHNICON SITE NO. 2, NEAR MANVILLE, N. J.

LOCATION.--Lat 40°32'36", long 74°33'51", Somerset County, at site approximately 1000 ft below confluence with Millstone River, and about 0.8 mi above gaging station, near Manville.

DRAINAGE AREA.--768 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: May 1970 to May 1971 (discontinued).

REMARKS.--Cross-section locations are in feet from right bank looking upstream. Records of discharge are given for 01403060 Raritan River below Calco Dam, at Bound Brook, N.J.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CROSS SECTION LOCATION (FT)	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
OCT.												
12...	100	152	--	--	--	--	--	--	--	--	--	--
NOV.												
25...	50	826	--	--	--	--	--	--	--	--	--	--
25...	110		13	80	70	20	7.9	10	2.2	48	38	13
DEC.												
15...	50	790	13	110	70	21	7.9	10	1.8	51	37	15
15...	75		--	--	--	--	--	--	--	--	--	--
15...	120		--	--	--	--	--	--	--	--	--	--
JAN.												
19...	40	442	14	210	65	28	8.5	16	2.0	62	48	22
19...	80		--	--	--	--	--	--	--	--	--	--
19...	100		--	--	--	--	--	--	--	--	--	--
FEB.												
26...	40	2080	10	40	69	16	6.0	9.5	2.0	33	30	15
26...	80		--	--	--	--	--	--	--	--	--	--
26...	100		--	--	--	--	--	--	--	--	--	--
MAR.												
16...	40	1630	9.8	60	90	18	7.0	9.5	2.0	39	33	14
16...	80		--	--	--	--	--	--	--	--	--	--
16...	100		--	--	--	--	--	--	--	--	--	--
APR.												
27...	40	466	5.3	90	40	20	6.5	12	1.8	58	39	15
27...	80		--	--	--	--	--	--	--	--	--	--
27...	130		--	--	--	--	--	--	--	--	--	--
MAY												
25...	35	502	6.9	90	50	20	7.0	10	2.0	58	35	15
25...	70		--	--	--	--	--	--	--	--	--	--
25...	120		--	--	--	--	--	--	--	--	--	--

DATE	CROSS SECTION LOCATION (FT)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)
OCT.												
12...	100	--	--	--	--	--	--	--	--	--	--	--
NOV.												
25...	50	--	--	.45	--	--	--	--	--	--	--	--
25...	110	.1	12	.96	.31	146	140	83	43	223	7.8	4
DEC.												
15...	50	.2	8.2	.35	.25	143	139	85	43	230	7.8	8
15...	75	--	--	--	--	--	--	--	--	--	--	--
15...	120	--	--	--	--	--	--	--	--	--	--	--
JAN.												
19...	40	.2	14	.16	.53	187	183	105	54	271	7.5	3
19...	80	--	--	--	--	--	--	--	--	--	--	--
19...	100	--	--	--	--	--	--	--	--	--	--	--
FEB.												
26...	40	.1	7.4	.49	.18	115	112	65	38	188	7.7	9
26...	80	--	--	--	--	--	--	--	--	--	--	--
26...	100	--	--	--	--	--	--	--	--	--	--	--
MAR.												
16...	40	.1	8.2	.07	.19	118	121	74	42	202	7.6	6
16...	80	--	--	--	--	--	--	--	--	--	--	--
16...	100	--	--	--	--	--	--	--	--	--	--	--
APR.												
27...	40	.2	4.0	.30	.11	131	132	77	29	232	7.4	1
27...	80	--	--	--	--	--	--	--	--	--	--	--
27...	130	--	--	--	--	--	--	--	--	--	--	--
MAY												
25...	35	.2	4.8	1.2	.22	143	130	79	32	220	6.9	3
25...	70	--	--	--	--	--	--	--	--	--	--	--
25...	120	--	--	--	--	--	--	--	--	--	--	--

01402920 RARITAN RIVER AT TECHNICON SITE NO 2, NEAR MANVILLE, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CROSS SECTION LOC-ATION (FT)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	PHENOLS (UG/L)
OCT.												
12...	100	--	0	0	--	0	0	--	4	.1	13	--
NOV.												
25...	50	--	--	--	--	--	--	--	--	--	--	--
25...	110	--	--	--	0	--	--	0	--	--	6	--
DEC.												
15...	50	--	--	--	10	--	--	10	--	--	30	0
15...	75	--	--	--	--	--	--	--	--	--	--	--
15...	120	--	--	--	--	--	--	--	--	--	--	--
JAN.												
19...	40	--	--	--	--	--	--	0	--	--	--	2
19...	80	--	--	--	--	--	--	--	--	--	--	--
19...	100	--	--	--	--	--	--	--	--	--	--	--
FEB.												
26...	40	--	--	--	0	--	--	8	--	--	8	--
26...	80	--	--	--	--	--	--	--	--	--	--	--
26...	100	--	--	--	--	--	--	--	--	--	--	--
MAR.												
16...	40	--	--	--	0	--	--	19	--	--	7	0
16...	80	--	--	--	--	--	--	--	--	--	--	--
16...	100	--	--	--	--	--	--	--	--	--	--	--
APR.												
27...	40	3.5	--	--	0	--	--	0	--	--	2	2
27...	80	--	--	--	--	--	--	--	--	--	--	--
27...	130	--	--	--	--	--	--	--	--	--	--	--
MAY												
25...	35	5.0	--	--	0	--	--	0	--	--	14	0
25...	70	--	--	--	--	--	--	--	--	--	--	--
25...	120	--	--	--	--	--	--	--	--	--	--	--

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	CROSS SECTION LOC-ATION (FT)	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)
NOV.						
25...	1400	50	2.7	240	7.2	13.2
25...	1401	110	2.7	240	7.2	11.4
DEC.						
15...	1500	50	3.0	230	6.7	13.6
15...	1501	75	3.0	235	6.9	--
15...	1502	120	3.0	225	6.7	--
JAN.						
19...	1500	40	.3	285	7.6	14.8
19...	1501	80	.3	280	7.6	15.2
19...	1502	100	.3	260	7.5	13.0
FEB.						
26...	1400	40	3.8	195	--	13.0
26...	1401	80	4.0	200	--	13.0
26...	1402	100	3.9	190	--	12.4
MAR.						
16...	1400	40	10.1	200	7.5	11.4
16...	1401	80	10.1	210	7.4	12.0
16...	1402	100	9.9	205	7.2	11.0
APR.						
27...	1400	40	13.0	250	9.6	12.2
27...	1401	80	13.6	260	9.2	12.0
27...	1402	130	13.1	245	8.5	11.8
MAY						
25...	1000	35	18.0	235	8.2	6.7
25...	1001	70	18.2	250	7.8	8.0
25...	1002	120	17.6	220	7.0	7.0

01403065 RARITAN RIVER AT TECHNICON SITE NO. 3, AT SOUTH BOUND BROOK, N. J.

LOCATION.--Lat 40°33'16", long 74°32'29", Somerset County, at Interstate Highway 287 bridge upstream of Middle Brook confluence, and about 0.5 mi below gaging station, in South Bound Brook.

DRAINAGE AREA.--781 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: May 1970 to May 1971 (discontinued).

REMARKS.--Cross-section locations are in feet from right bank looking upstream. Records of discharge are given for 01403060 Raritan River below Calco Dam, at Bound Brook, N.J.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CROSS SECTION LOC-ATION (FT)	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT.												
12...	120	152	--	--	--	--	--	--	--	--	--	--
NOV.												
25...	50	826	--	--	--	--	--	--	--	--	--	--
25...	100		--	--	--	--	--	--	--	--	--	--
25...	130		12	500	180	29	10	48	3.6	5	113	53
25...	160		--	--	--	--	--	--	--	--	--	--
DEC.												
15...	25	790	12	140	170	24	8.5	24	2.7	40	71	29
15...	85		--	--	--	--	--	--	--	--	--	--
15...	110		--	--	--	--	--	--	--	--	--	--
15...	160		12	130	140	23	8.3	26	3.5	27	71	31
JAN.												
19...	60	442	--	--	--	--	--	--	--	--	--	--
19...	90		--	--	--	--	--	--	--	--	--	--
19...	130		--	--	--	--	--	--	--	--	--	--
19...	150		13	460	200	38	10	64	4.1	24	146	72
FEB.												
26...	50	2080	--	--	--	--	--	--	--	--	--	--
26...	90		--	--	--	--	--	--	--	--	--	--
26...	170		9.6	200	100	21	7.1	23	2.8	14	66	28
26...	190		--	--	--	--	--	--	--	--	--	--
MAR.												
16...	40	1630	--	--	--	--	--	--	--	--	--	--
16...	60		--	--	--	--	--	--	--	--	--	--
16...	100		9.9	160	95	23	8.0	20	2.5	26	54	31
16...	120		--	--	--	--	--	--	--	--	--	--
APR.												
27...	30	466	--	--	--	--	--	--	--	--	--	--
27...	90		--	--	--	--	--	--	--	--	--	--
27...	130		5.9	380	140	30	7.8	71	3.6	5	148	73
27...	160		--	--	--	--	--	--	--	--	--	--
MAY												
25...	30	502	--	--	--	--	--	--	--	--	--	--
25...	80		--	--	--	--	--	--	--	--	--	--
25...	115		8.0	200	200	38	10	66	4.3	8	160	66
25...	140		--	--	--	--	--	--	--	--	--	--

DATE	CROSS SECTION LOC-ATION (FT)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)
OCT.												
12...	120	--	--	--	--	--	--	--	--	--	--	--
NOV.												
25...	50	--	--	2.0	--	--	--	--	--	--	--	--
25...	100	--	--	3.8	--	--	--	--	--	--	--	--
25...	130	.2	40	6.1	.78	317	311	114	110	500	6.4	25
25...	160	--	--	5.5	--	--	--	--	--	--	--	--
DEC.												
15...	25	.1	8.8	1.7	.31	218	200	95	62	341	7.4	15
15...	85	--	--	--	--	--	--	--	--	--	--	--
15...	110	--	--	--	--	--	--	--	--	--	--	--
15...	160	.1	9.2	2.3	.81	223	197	92	70	354	7.1	18
JAN.												
19...	60	--	--	--	--	--	--	--	--	--	--	--
19...	90	--	--	--	--	--	--	--	--	--	--	--
19...	130	--	--	--	--	--	--	--	--	--	--	--
19...	150	.1	16	4.6	.92	405	376	136	117	636	7.3	40
FEB.												
26...	50	--	--	--	--	--	--	--	--	--	--	--
26...	90	--	--	--	--	--	--	--	--	--	--	--
26...	170	.1	14	8.1	.28	187	178	82	70	308	7.3	18
26...	190	--	--	--	--	--	--	--	--	--	--	--
MAR.												
16...	40	--	--	--	--	--	--	--	--	--	--	--
16...	60	--	--	--	--	--	--	--	--	--	--	--
16...	100	.2	14	.95	.32	179	175	91	69	298	7.2	16
16...	120	--	--	--	--	--	--	--	--	--	--	--
APR.												
27...	30	--	--	--	--	--	--	--	--	--	--	--
27...	90	--	--	--	--	--	--	--	--	--	--	--
27...	130	.4	29	1.0	.55	396	371	107	103	601	5.4	80
27...	160	--	--	--	--	--	--	--	--	--	--	--
MAY												
25...	30	--	--	--	--	--	--	--	--	--	--	--
25...	80	--	--	--	--	--	--	--	--	--	--	--
25...	115	.3	28	16	.39	401	385	136	130	606	5.6	45
25...	140	--	--	--	--	--	--	--	--	--	--	--

01403065 RARITAN RIVER AT TECHNICON SITE NO. 3, AT SOUTH BOUND BROOK, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CROSS SECTION LOC-ATION (FT)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	PHENOLS (UG/L)
OCT.												
12...	120	--	0	0	--	0	2	--	5	.0	27	--
NOV.												
25...	50	--	--	--	--	--	--	--	--	--	--	--
25...	100	--	--	--	--	--	--	--	--	--	--	--
25...	130	--	--	--	10	--	--	10	--	--	32	--
25...	160	--	--	--	--	--	--	--	--	--	--	--
DEC.												
15...	25	--	--	--	5	--	--	10	--	--	30	--
15...	85	--	--	--	--	--	--	--	--	--	--	--
15...	110	--	--	--	--	--	--	--	--	--	--	--
15...	160	--	--	--	0	--	--	10	--	--	30	10
JAN.												
19...	60	--	--	--	--	--	--	--	--	--	--	--
19...	90	--	--	--	--	--	--	--	--	--	--	--
19...	130	--	--	--	--	--	--	--	--	--	--	--
19...	150	--	--	--	--	--	--	5	--	--	--	16
FEB.												
26...	50	--	--	--	--	--	--	--	--	--	--	--
26...	90	--	--	--	--	--	--	--	--	--	--	--
26...	170	--	--	--	0	--	--	34	--	--	13	--
26...	190	--	--	--	--	--	--	--	--	--	--	--
MAR.												
16...	40	--	--	--	--	--	--	--	--	--	--	--
16...	60	--	--	--	--	--	--	--	--	--	--	--
16...	100	--	--	--	0	--	--	37	--	--	13	13
16...	120	--	--	--	--	--	--	--	--	--	--	--
APR.												
27...	30	--	--	--	--	--	--	--	--	--	--	--
27...	90	--	--	--	--	--	--	--	--	--	--	--
27...	130	11	--	--	0	--	--	0	--	--	24	6
27...	160	--	--	--	--	--	--	--	--	--	--	--
MAY												
25...	30	--	--	--	--	--	--	--	--	--	--	--
25...	80	--	--	--	--	--	--	--	--	--	--	--
25...	115	13	--	--	0	--	--	10	--	--	32	10
25...	140	--	--	--	--	--	--	--	--	--	--	--

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	CROSS SECTION LOC-ATION (FT)	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)
NOV.						
25...	1200	50	3.6	360	7.1	13.2
25...	1201	100	3.6	380	7.0	12.0
25...	1202	130	3.6	380	7.0	11.6
25...	1203	160	3.6	360	7.0	11.8
DEC.						
15...	1300	25	3.4	330	6.9	12.2
15...	1301	85	3.4	490	6.6	12.4
15...	1302	110	3.4	475	6.6	12.0
15...	1303	160	3.4	330	6.7	12.0
JAN.						
19...	1200	60	.3	550	7.1	13.4
19...	1201	90	.3	640	7.2	--
19...	1202	130	.3	690	7.2	13.4
19...	1203	150	.3	650	7.1	13.0
FEB.						
26...	1200	50	4.2	255	--	12.8
26...	1201	90	4.2	320	--	12.8
26...	1202	170	4.0	325	--	13.0
26...	1203	190	4.0	260	--	11.6
MAR.						
16...	1200	40	10.2	260	7.6	10.0
16...	1201	60	10.6	325	7.6	11.2
16...	1202	100	10.1	340	7.4	10.8
16...	1203	120	9.8	285	7.4	11.0
APR.						
27...	1100	30	11.2	405	8.1	11.2
27...	1101	90	11.5	590	8.1	10.6
27...	1102	130	12.0	660	7.7	10.8
27...	1103	160	11.8	495	7.5	10.2
MAY						
25...	1400	30	19.8	410	7.6	8.8
25...	1401	80	19.9	610	7.4	8.4
25...	1402	115	19.8	675	7.2	8.2
25...	1403	140	19.3	470	7.0	7.6

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.

LOCATION.--Lat 40°30'47", long 74°32'24", Somerset County, water-quality recorder 0.1 mile above Fieldville Dam and 0.3 mile above south crossing of Interstate Highway 287, 1.5 mile southeast of South Bound Brook.
DRAINAGE AREA.--862 sq mi.
PERIOD OF RECORD.--Chemical analyses: May 1969 to September 1971.
Water temperatures: May 1969 to September 1971.
EXTREMES.--1970-71:
Specific conductance: Maximum, 1,570 micromhos Oct. 20; minimum, 109 micromhos Jan. 12.
Dissolved oxygen: Maximum, 13.9 mg/l Dec. 15; minimum, 1.3 mg/l June 16.
Water temperatures: Maximum, 30.0°C Aug. 21; minimum, freezing point on several days during winter months.
pH: Maximum, 11.0 Oct. 14; minimum, 4.3 Oct. 28.
Period of record:
Specific conductance: Maximum, 1,570 micromhos Oct. 20, 1970; minimum, 109 micromhos Jan. 12, 1971.
Dissolved oxygen: Maximum, 13.9 mg/l Dec. 15, 1970; minimum, 0.3 mg/l July 26, 1970.
Water temperatures: Maximum, 31.0°C June 13, 1969; minimum, freezing point on several days during winter months.
pH: Maximum, 12.4 Nov. 12, 1969; minimum, 4.0 Oct. 25, 1969.
REMARKS.--Records of discharge are given for 01403060 Raritan River below Calco Dam, at Bound Brook, N. J. Missing continuous water-quality records due to malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
OCT.									
12...	152	5.5	50	480	54	13	135	--	6.4
NOV.									
16...	3970	--	--	--	17	6.0	--	13	--
DEC.									
15...	790	11	100	125	19	7.4	19	--	3.0
JAN.									
15...	754	--	--	--	24	7.9	--	34	--
FEB.									
26...	2080	--	--	--	16	5.4	--	18	--
MAR.									
31...	772	--	--	--	23	7.0	--	30	--
APR.									
16...	871	7.8	2200	110	20	7.1	20	--	4.7
MAY									
25...	502	--	--	--	30	7.5	--	48	--
JUNE									
24...	152	--	--	--	45	12	--	112	--
29...	167	--	--	--	32	9.7	--	78	--
JULY									
28...	156	4.9	40	120	40	8.8	53	--	4.1
AUG.									
24...	123	--	--	--	65	17	--	122	--
SEP.									
23...	1310	12	250	67	18	6.0	13	--	3.2

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
OCT.									
12...	2	0	2	272	140	.3	42	1.3	702
NOV.									
16...	22	0	18	46	19	--	3.8	.46	--
DEC.									
15...	29	0	24	58	24	.3	14	.69	188
JAN.									
15...	13	0	11	74	44	--	22	.65	--
FEB.									
26...	21	0	17	46	20	--	11	.32	--
MAR.									
31...	25	0	21	68	30	--	21	.46	--
APR.									
16...	20	0	16	65	28	1.1	8.5	.33	203
MAY									
25...	19	0	16	101	43	--	36	.54	--
JUNE									
24...	13	0	11	206	109	--	34	.89	--
29...	26	0	21	152	59	--	35	1.5	--
JULY									
28...	35	0	29	100	70	.1	16	1.2	333
AUG.									
24...	8	0	7	272	123	--	42	1.4	--
SEP.									
23...	36	0	30	41	15	.1	11	.40	149

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 12...	668	188	107	1100	7.4	90	2.2	--
NOV. 16...	--	67	49	233	7.0	20	1.8	--
DEC. 15...	170	78	54	277	6.5	10	2.4	--
JAN. 15...	--	93	82	364	6.9	5	2.8	--
FEB. 26...	--	62	45	226	7.1	6	2.0	--
MAR. 31...	--	87	66	323	6.6	7	.3	--
APR. 16...	172	79	63	304	6.9	12	1.6	5.5
MAY 25...	--	106	91	435	6.1	25	6.0	--
JUNE 24...	--	162	151	842	5.9	40	5.0	--
29...	--	120	98	625	6.0	45	4.2	--
JULY 28...	314	136	108	560	6.6	26	5.8	10
AUG. 24...	--	232	225	1060	5.8	60	7.4	--
SEP. 23...	137	70	40	224	6.8	15	--	7.0

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT. 12...	--	0	--	--	--	--	0	--
SEP. 23...	43	--	47	<0.5	<3	46	<11	2

DATE	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)
OCT. 12...	0	2	--	--	--	4	--	.0	--
SEP. 23...	--	<2	7	<2	<3	<3	<10	--	2

DATE	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT. 12...	--	--	--	--	--	--	20	--
SEP. 23...	5	<0.2	110	<3	3	<2.0	<110	<5

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT.						
12...	1300	20.0	1090	7.0	5.0	1880
NOV.						
16...	1230	11.3	220	6.5	6.5	4000
DEC.						
15...	1315	3.4	300	6.6	11.6	1660
JAN.						
15...	1415	.9	--	7.0	12.2	833
FEB.						
26...	1230	4.3	225	6.8	12.4	138
MAR.						
31...	1000	7.9	330	7.0	11.2	38
APR.						
16...	1100	11.1	320	7.9	10.2	880
MAY						
25...	1345	18.5	440	6.7	6.6	3800
JUNE						
24...	1500	29.5	850	6.4	2.8	6800
29...	1430	25.4	570	6.3	3.0	--
JULY						
28...	1500	26.3	530	6.7	3.2	--
AUG.						
24...	1100	22.7	940	6.4	4.2	--
SEP.						
23...	1200	19.1	210	6.7	7.5	--

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1160	1090	1110	822	716	770	---	---	---	485	393	446
2	1270	1170	1240	790	698	762	---	---	---	453	349	404
3	1230	1010	1140	757	721	737	---	---	---	383	329	352
4	1140	953	1030	796	720	758	---	---	---	387	345	369
5	1070	967	1020	748	214	292	---	---	---	329	211	---
6	1180	979	1100	351	251	293	---	---	---	---	---	---
7	1290	1100	1200	384	340	356	558	440	---	---	---	---
8	1330	1170	1260	400	374	388	693	465	564	---	---	---
9	1360	1170	1260	486	410	434	632	492	547	---	---	---
10	1380	1230	1300	510	478	488	605	543	575	---	---	---
11	1250	984	1130	506	462	---	613	517	567	---	---	---
12	1100	953	1000	---	---	---	592	358	486	297	109	---
13	1160	1030	1090	---	---	---	349	305	328	333	299	314
14	1200	1110	1150	---	---	---	296	282	290	389	315	345
15	1230	855	1140	---	---	---	303	279	291	365	327	340
16	879	609	723	214	170	---	350	300	320	629	339	436
17	833	637	719	280	166	214	396	186	234	447	369	409
18	1130	875	986	306	200	246	242	204	225	463	405	428
19	1550	992	1230	360	310	---	256	244	248	547	453	492
20	1570	1070	1360	---	---	---	262	246	253	560	516	538
21	1180	1090	1140	---	---	---	264	250	257	580	524	544
22	1150	254	714	---	---	---	267	251	260	564	520	545
23	245	199	215	---	---	---	302	260	276	532	492	511
24	312	234	276	---	---	---	334	292	311	542	480	501
25	362	312	336	304	222	---	319	269	280	508	474	491
26	434	366	394	352	216	287	276	244	257	536	402	498
27	555	431	479	320	230	301	269	247	255	---	---	---
28	678	556	594	---	---	---	325	275	286	---	---	---
29	760	674	718	---	---	---	425	296	362	---	---	---
30	814	740	784	310	250	---	493	321	416	---	---	---
31	852	748	802	---	---	---	571	393	475	---	---	---
MONTH	1570	199	924	---	---	---	693	186	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	381	335	358	545	411	467
2	---	---	---	---	---	---	417	379	395	---	---	---
3	---	---	---	---	---	---	414	336	380	---	---	---
4	---	---	---	---	---	---	380	322	343	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	558	496	---
7	---	---	---	---	---	---	---	---	---	550	480	516
8	---	---	---	198	190	---	---	---	---	522	382	470
9	---	---	---	216	200	205	---	---	---	---	---	---
10	---	---	---	228	214	218	---	---	---	324	278	---
11	---	---	---	248	228	236	---	---	---	376	312	337
12	---	---	---	248	234	---	---	---	---	518	378	464
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	299	213	---	---	---	---
15	---	---	---	---	---	---	321	239	304	---	---	---
16	---	---	---	---	---	---	385	251	319	---	---	---
17	271	253	---	---	---	---	379	323	350	---	---	---
18	275	245	263	---	---	---	389	355	373	---	---	---
19	253	233	240	---	---	---	379	337	362	---	---	---
20	267	231	248	---	---	---	403	347	378	---	---	---
21	243	221	232	---	---	---	461	377	412	---	---	---
22	235	205	227	---	---	---	453	373	418	---	---	---
23	203	177	187	256	236	---	491	423	456	---	---	---
24	213	199	---	288	256	267	1360	439	546	---	---	---
25	---	---	---	300	276	288	1550	266	890	527	465	---
26	---	---	---	305	277	294	480	288	352	519	439	483
27	---	---	---	315	291	304	668	352	484	499	399	428
28	---	---	---	305	287	297	633	526	593	---	---	---
29	---	---	---	312	284	296	573	475	549	---	---	---
30	---	---	---	332	254	308	509	441	474	---	---	---
31	---	---	---	358	314	339	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N.J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	316	276	---	---	---	---	---	---	---	---	---	---
2	412	314	363	---	---	---	---	---	---	---	---	---
3	482	402	443	---	---	---	263	239	---	---	---	---
4	446	386	---	---	---	---	281	265	271	---	---	---
5	---	---	---	---	---	---	303	273	289	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	768	650	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	761	693	---	---	---	---	---	---	---	---	---	---
16	773	569	670	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	186	182	---
18	---	---	---	---	---	---	---	---	---	188	160	181
19	---	---	---	---	---	---	1040	728	910	197	183	192
20	---	---	---	317	265	---	1140	634	863	205	199	201
21	---	---	---	333	271	308	928	548	784	211	197	205
22	---	---	---	507	347	428	---	---	---	210	198	205
23	---	---	---	---	---	---	---	---	---	252	210	232
24	---	---	---	---	---	---	1070	810	---	279	253	263
25	---	---	---	---	---	---	1180	836	1060	298	278	286
26	---	---	---	---	---	---	1310	1010	1170	289	271	280
27	---	---	---	600	436	---	1190	1040	---	---	---	---
28	---	---	---	668	560	606	---	---	---	311	285	---
29	---	---	---	---	---	---	---	---	---	318	300	310
30	---	---	---	---	---	---	---	---	---	328	312	322
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	5.6	4.5	5.0	---	---	---	12.5	12.2	12.4
2	---	---	---	6.9	4.6	5.5	---	---	---	12.3	12.0	12.1
3	---	---	---	6.5	6.0	6.2	---	---	---	12.3	12.0	12.1
4	---	---	---	6.2	4.6	5.4	---	---	---	12.2	11.5	11.9
5	6.4	5.1	---	---	---	---	---	---	---	---	---	---
6	5.3	4.5	5.0	---	---	---	---	---	---	---	---	---
7	5.3	4.5	4.9	---	---	---	11.8	10.9	---	---	---	---
8	4.8	4.4	4.6	---	---	---	11.8	10.3	11.0	---	---	---
9	5.3	4.3	4.6	8.5	8.3	---	12.5	11.0	11.6	---	---	---
10	5.3	4.5	5.0	8.2	7.6	7.9	11.5	11.1	11.3	---	---	---
11	4.8	4.0	4.4	8.0	7.2	---	11.4	11.0	11.2	---	---	---
12	4.9	4.0	4.3	---	---	---	11.7	11.3	11.4	12.5	12.4	---
13	5.0	4.2	4.5	---	---	---	11.9	11.5	11.7	12.4	12.0	12.2
14	5.1	4.4	4.6	---	---	---	12.7	11.7	12.2	12.5	12.1	12.3
15	5.1	4.4	4.6	---	---	---	13.9	11.3	12.2	12.5	12.1	12.3
16	---	---	---	---	---	---	12.7	11.5	12.3	12.7	12.2	12.4
17	---	---	---	---	---	---	13.3	12.4	12.6	12.9	12.6	12.8
18	---	---	---	---	---	---	12.9	11.9	12.4	13.0	12.6	12.8
19	6.0	5.6	---	---	---	---	12.6	11.3	12.0	13.0	12.7	12.9
20	6.5	4.6	5.6	---	---	---	11.7	11.0	11.3	13.2	12.6	12.9
21	6.7	3.3	5.1	---	---	---	11.9	11.3	11.5	13.1	12.6	12.8
22	---	---	---	---	---	---	11.9	11.3	11.5	12.9	12.6	12.7
23	---	---	---	---	---	---	12.0	11.4	11.8	13.0	12.5	12.7
24	---	---	---	---	---	---	12.2	11.9	12.0	12.9	12.5	12.6
25	---	---	---	10.7	9.9	---	12.2	12.1	12.1	12.7	12.5	12.6
26	5.4	4.6	---	10.8	8.1	9.4	12.4	12.1	12.3	13.0	12.6	---
27	5.9	5.2	5.5	---	---	---	12.6	12.4	12.5	---	---	---
28	6.5	5.1	6.2	---	---	---	12.7	11.8	12.4	---	---	---
29	6.4	5.8	6.2	---	---	---	13.1	12.8	12.9	---	---	---
30	6.4	5.4	5.9	10.3	10.1	---	13.1	12.6	12.8	---	---	---
31	5.8	5.1	5.5	---	---	---	12.9	12.3	12.6	---	---	---
MONTH	---	---	---	---	---	---	13.9	10.3	---	---	---	---

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	11.8	10.9	11.2	---	---	---
2	---	---	---	---	---	---	11.7	10.7	11.1	---	---	---
3	---	---	---	---	---	---	11.7	10.3	10.9	---	---	---
4	---	---	---	---	---	---	11.2	10.2	10.6	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	12.1	11.9	---	---	---	---	---	---	---
9	---	---	---	12.6	12.3	12.5	---	---	---	---	---	---
10	---	---	---	12.7	12.3	12.6	---	---	---	8.7	8.1	---
11	---	---	---	12.5	12.0	12.2	---	---	---	7.9	5.9	6.5
12	---	---	---	12.4	12.1	12.3	---	---	---	---	---	---
13	---	---	---	12.3	11.9	12.1	11.7	11.1	---	---	---	---
14	---	---	---	12.3	12.1	12.2	11.8	10.3	11.0	---	---	---
15	---	---	---	12.3	11.4	11.9	12.4	11.1	11.7	---	---	---
16	---	---	---	11.6	10.7	11.1	12.5	11.2	11.8	---	---	---
17	13.7	13.3	---	11.0	10.7	10.8	12.4	11.2	11.8	---	---	---
18	13.3	12.5	13.0	11.2	10.6	11.0	11.8	10.6	11.1	---	---	---
19	12.5	11.6	12.0	11.0	10.7	10.9	11.3	10.1	10.6	---	---	---
20	12.1	11.5	11.8	11.7	11.3	11.6	11.4	9.1	10.1	---	---	---
21	11.8	11.3	11.5	11.8	11.7	11.8	9.8	7.6	8.7	---	---	---
22	11.4	11.2	11.3	11.9	11.2	11.6	9.4	7.1	8.2	---	---	---
23	---	---	---	11.5	10.0	10.9	9.8	7.8	8.8	---	---	---
24	---	---	---	10.7	10.2	10.5	9.7	6.6	8.6	---	---	---
25	---	---	---	11.3	11.0	11.1	7.4	6.1	6.7	7.0	6.1	---
26	---	---	---	11.6	11.1	11.4	7.4	5.9	6.5	6.1	5.1	5.5
27	---	---	---	11.7	11.4	11.6	10.2	6.1	8.1	---	---	---
28	---	---	---	11.9	11.1	11.5	9.7	7.5	8.3	---	---	---
29	---	---	---	11.8	11.3	11.5	8.0	6.7	7.3	---	---	---
30	---	---	---	12.2	11.7	12.0	7.6	6.1	6.9	---	---	---
31	---	---	---	12.0	11.4	11.7	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	6.6	---	---	---	---	---	---	---	---	---	---
2	7.4	5.1	6.4	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	7.1	4.4	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	4.2	3.8	---	---	---	---	---	---	---	---	---	---
16	3.7	1.3	2.8	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	6.8	5.9	---
18	---	---	---	---	---	---	---	---	---	7.6	5.8	6.8
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	5.8	5.0	---	---	---	---	---	---	---
21	---	---	---	4.9	3.1	4.0	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	7.5	7.0	---
24	---	---	---	---	---	---	6.0	4.1	---	7.4	6.7	7.1
25	---	---	---	---	---	---	6.0	4.1	4.8	7.1	6.7	6.9
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	4.3	2.4	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	7.8	7.0	---
29	---	---	---	---	---	---	---	---	---	8.0	6.7	7.3
30	---	---	---	---	---	---	---	---	---	7.1	5.[illegible]	6.4
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.0	16.5	17.5	13.0	11.0	12.0	---	---	---	1.0	0.5	0.5
2	18.0	16.5	17.5	13.0	12.0	12.5	---	---	---	1.0	0	0.5
3	19.0	17.0	18.0	13.0	12.0	12.5	---	---	---	1.5	0	0.5
4	18.5	16.5	17.5	13.0	12.5	12.5	---	---	---	1.0	0.5	1.0
5	16.5	15.0	16.0	12.5	10.5	11.0	---	---	---	3.5	1.0	2.0
6	18.0	16.0	17.0	10.5	9.5	10.0	---	---	---	4.0	3.0	3.0
7	20.0	16.5	18.5	11.0	9.0	10.0	2.5	1.5	---	3.5	2.5	3.0
8	21.5	17.5	19.0	11.0	9.0	10.0	2.5	1.0	1.5	4.5	2.0	3.5
9	19.5	18.0	19.0	11.0	9.5	10.0	3.0	1.5	2.5	5.0	3.0	4.0
10	21.0	18.5	19.5	11.5	10.0	10.5	4.0	2.5	3.5	6.5	4.0	5.0
11	21.0	19.0	20.0	12.0	11.5	---	3.5	3.0	3.0	8.5	4.5	6.0
12	22.0	19.0	20.0	---	---	---	3.5	3.0	3.0	6.0	1.0	3.5
13	21.0	19.5	20.0	---	---	---	3.0	3.0	3.0	2.0	0.5	1.0
14	21.5	20.0	21.0	---	---	---	3.5	3.0	3.0	1.5	0	0.5
15	21.0	20.0	20.5	---	---	---	3.5	2.5	3.0	1.5	0.5	1.0
16	20.0	16.5	18.5	10.5	9.5	---	2.5	2.0	2.0	0.5	0	0
17	16.5	13.0	14.0	9.5	8.0	9.0	3.5	2.5	3.0	0.5	0	0
18	14.0	12.0	13.0	8.5	7.5	8.0	4.0	3.5	3.5	0.5	0	0
19	15.0	13.0	14.0	10.0	8.5	---	5.0	3.5	4.5	0.5	0	0
20	14.0	12.0	13.0	---	---	---	5.5	4.5	5.0	0.5	0	0
21	14.5	13.0	14.0	---	---	---	4.5	4.0	4.5	0.5	0	0.5
22	15.0	14.5	15.0	---	---	---	4.0	3.0	3.5	1.0	0.5	0.5
23	16.0	15.5	15.5	---	---	---	3.0	2.5	3.0	1.5	0.5	1.0
24	16.5	15.5	16.0	---	---	---	3.0	2.5	2.5	1.0	0	0.5
25	15.5	15.0	15.5	4.5	3.5	---	3.0	2.5	2.5	1.5	0.5	1.0
26	15.0	14.0	14.5	5.5	3.0	4.5	2.5	1.5	2.0	2.0	0.5	1.5
27	14.0	12.5	13.0	6.0	5.0	5.5	1.5	0.5	1.0	---	---	---
28	13.0	11.5	12.0	---	---	---	1.0	0.5	1.0	---	---	---
29	12.0	10.5	11.0	---	---	---	1.0	0.5	0.5	---	---	---
30	11.5	10.5	11.0	8.5	7.0	---	1.0	0.5	0.5	---	---	---
31	12.0	10.5	11.5	---	---	---	1.5	0.5	1.0	---	---	---
MONTH	22.0	10.5	16.0	---	---	---	5.5	0.5	---	8.5	0	1.5

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	10.0	7.0	8.5	13.5	10.5	12.0
2	---	---	---	---	---	---	11.0	8.5	10.0	13.0	11.5	12.0
3	---	---	---	---	---	---	13.0	9.5	11.5	14.0	10.5	12.0
4	---	---	---	---	---	---	13.0	10.0	11.5	17.0	11.0	13.0
5	---	---	---	---	---	---	---	---	---	20.0	10.5	15.0
6	---	---	---	---	---	---	---	---	---	16.5	14.0	15.0
7	---	---	---	---	---	---	---	---	---	16.0	12.5	14.5
8	---	---	---	3.0	3.0	---	---	---	---	15.0	12.5	13.5
9	---	---	---	3.5	2.0	2.5	---	---	---	12.5	12.0	12.5
10	---	---	---	4.5	2.5	3.5	---	---	---	15.5	12.0	13.5
11	---	---	---	5.5	4.0	4.5	---	---	---	18.0	13.0	15.5
12	---	---	---	6.0	4.0	5.0	---	---	---	17.0	15.0	16.5
13	---	---	---	6.0	5.0	5.5	13.5	12.0	---	16.5	14.0	15.5
14	---	---	---	6.5	5.5	5.5	13.5	9.0	12.0	---	---	---
15	---	---	---	8.5	5.5	7.0	12.0	8.5	10.5	---	---	---
16	---	---	---	10.5	7.5	9.0	10.5	9.0	9.5	---	---	---
17	2.0	1.0	---	9.0	7.0	8.5	12.0	8.0	10.0	---	---	---
18	3.0	0.5	2.0	8.0	6.0	7.0	13.5	9.0	11.5	---	---	---
19	4.0	2.5	3.5	6.5	5.5	6.5	15.0	10.5	13.0	---	---	---
20	4.0	3.0	3.5	5.5	5.0	5.5	16.5	12.0	14.5	---	---	---
21	4.5	3.5	4.0	6.0	5.0	5.5	16.5	13.5	15.0	---	---	---
22	4.0	2.5	3.5	7.0	5.5	6.5	14.5	12.5	13.5	---	---	---
23	3.5	2.0	3.0	8.5	6.5	7.0	14.5	11.5	13.0	---	---	---
24	4.5	3.5	---	7.0	5.0	6.5	15.0	9.5	12.5	---	---	---
25	---	---	---	7.0	4.5	5.5	11.5	10.0	10.5	20.0	18.5	---
26	---	---	---	6.0	5.0	5.5	11.0	9.5	10.0	20.5	18.0	19.0
27	---	---	---	7.0	4.0	5.5	14.0	9.0	11.5	19.0	16.5	17.5
28	---	---	---	8.5	4.5	7.0	12.5	11.5	11.5	---	---	---
29	---	---	---	8.5	7.0	7.5	12.0	11.0	11.5	---	---	---
30	---	---	---	9.0	7.0	8.0	12.5	10.5	11.5	---	---	---
31	---	---	---	9.5	6.5	8.0	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	18.5	---	---	---	---	---	---	---	---	---	---
2	20.0	17.5	18.5	---	---	---	---	---	---	---	---	---
3	21.5	18.0	19.5	---	---	---	26.0	24.5	---	---	---	---
4	20.5	19.0	---	---	---	---	24.0	20.5	23.0	---	---	---
5	---	---	---	---	---	---	24.0	20.0	21.5	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	18.0	15.5	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	20.0	19.0	---	---	---	---	---	---	---	---	---	---
16	21.0	18.0	19.0	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	22.0	21.0	---
18	---	---	---	---	---	---	---	---	---	21.0	19.5	20.5
19	---	---	---	---	---	---	27.5	24.0	25.5	20.5	19.0	19.5
20	---	---	---	25.0	24.0	---	27.5	23.0	25.0	20.0	18.0	19.0
21	---	---	---	24.5	20.0	22.0	30.0	24.0	27.0	21.0	19.5	20.0
22	---	---	---	26.5	20.5	23.0	---	---	---	19.5	17.5	18.5
23	---	---	---	---	---	---	---	---	---	19.5	17.0	18.5
24	---	---	---	---	---	---	25.5	22.5	---	20.0	18.0	19.0
25	---	---	---	---	---	---	26.0	20.5	23.0	18.5	16.0	17.5
26	---	---	---	---	---	---	27.0	23.5	25.5	17.0	16.5	17.0
27	---	---	---	28.0	27.0	---	26.0	22.5	---	---	---	---
28	---	---	---	26.5	23.5	25.5	---	---	---	17.5	17.0	---
29	---	---	---	---	---	---	---	---	---	21.0	17.5	19.0
30	---	---	---	---	---	---	---	---	---	22.5	19.5	21.0
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.2	7.7	8.3	7.8	5.8	6.7	---	---	---	6.8	6.5	6.7
2	9.2	7.9	8.7	7.3	6.6	7.1	---	---	---	6.5	6.3	6.5
3	9.5	8.2	9.0	9.3	7.3	8.2	---	---	---	6.6	6.1	6.4
4	8.9	7.9	8.4	10.0	9.0	9.6	---	---	---	6.5	6.3	6.4
5	8.8	7.0	7.6	9.1	6.4	7.2	---	---	---	6.3	6.0	6.2
6	8.8	6.8	7.9	---	---	---	---	---	---	6.2	6.0	6.1
7	9.3	6.7	8.2	---	---	---	7.2	6.9	---	6.2	6.1	6.1
8	9.4	6.8	8.0	---	---	---	7.2	6.9	7.1	6.2	6.1	6.2
9	9.9	8.0	9.1	7.3	7.0	---	6.9	6.5	6.7	6.2	6.1	6.1
10	9.9	7.2	9.0	7.4	7.2	7.3	6.7	6.4	6.5	6.1	6.0	6.1
11	9.9	8.5	9.4	7.4	7.3	---	6.6	6.4	6.5	6.1	5.9	6.0
12	10.0	7.0	9.2	---	---	---	6.6	6.4	6.5	7.0	6.0	6.5
13	10.9	8.2	10.2	---	---	---	6.5	6.3	6.4	7.0	6.6	6.8
14	11.0	9.0	10.5	---	---	---	6.5	6.2	6.4	7.0	6.8	6.9
15	10.7	10.3	10.6	---	---	---	7.0	6.4	6.7	7.1	6.8	6.9
16	10.4	8.0	9.3	7.1	6.7	---	7.4	6.6	6.9	7.3	6.9	7.1
17	9.7	7.3	7.9	7.5	6.7	---	7.1	6.0	6.5	7.1	6.7	6.9
18	10.1	7.0	8.2	7.5	6.8	7.2	6.2	5.9	6.1	6.9	6.7	6.8
19	10.2	6.9	---	6.8	6.5	7.2	6.4	6.1	6.2	7.0	6.8	7.0
20	---	---	---	---	---	---	6.3	6.1	6.2	7.0	6.7	6.9
21	---	---	---	---	---	---	6.7	6.3	6.5	6.9	6.8	6.8
22	---	---	---	---	---	---	6.6	6.5	6.6	6.9	6.7	6.8
23	---	---	---	---	---	---	6.6	6.5	6.6	6.9	6.7	6.8
24	---	---	---	---	---	---	6.7	6.6	6.6	6.8	6.4	6.6
25	---	---	---	7.4	7.0	---	6.7	6.6	6.6	6.5	6.3	6.4
26	7.1	5.8	---	7.6	6.9	7.2	6.8	6.6	6.7	7.0	6.7	6.9
27	5.7	4.7	5.1	7.3	6.8	7.0	6.8	6.7	6.8	---	---	---
28	7.2	4.3	5.3	---	---	---	6.8	6.7	6.8	---	---	---
29	7.8	4.8	6.1	---	---	---	6.8	6.6	6.7	---	---	---
30	7.8	5.0	6.4	7.1	6.8	---	6.9	6.7	6.8	---	---	---
31	7.5	5.9	6.7	---	---	---	6.9	6.4	6.6	---	---	---
MONTH	11.0	4.3	---	---	---	---	7.4	5.9	---	7.3	5.9	6.6

01404100 RARITAN RIVER NEAR SOUTH BOUND BROOK, N. J.--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.8	6.0	6.5	7.1	6.5	6.8
2	---	---	---	---	---	---	6.7	6.2	6.5	7.0	6.6	6.8
3	---	---	---	---	---	---	7.0	6.5	6.7	7.2	6.6	6.9
4	---	---	---	---	---	---	7.0	6.7	6.9	7.2	6.8	6.9
5	---	---	---	---	---	---	---	---	---	7.3	6.8	7.0
6	---	---	---	---	---	---	---	---	---	7.7	7.2	7.4
7	---	---	---	---	---	---	---	---	---	7.3	6.8	7.0
8	---	---	---	6.6	6.4	---	---	---	---	7.3	6.6	6.9
9	---	---	---	6.7	6.3	6.5	---	---	---	6.6	6.5	6.6
10	---	---	---	6.6	5.9	6.4	---	---	---	7.1	6.5	6.8
11	---	---	---	6.6	6.2	6.4	---	---	---	7.2	6.8	6.9
12	---	---	---	6.8	6.2	6.5	---	---	---	7.2	6.9	7.0
13	---	---	---	6.7	6.6	6.6	7.9	7.1	---	7.9	6.9	7.1
14	---	---	---	6.8	6.5	6.6	8.1	7.6	7.8	6.9	6.6	6.8
15	---	---	---	9.1	6.2	7.0	8.1	7.7	7.9	7.1	6.8	7.0
16	---	---	---	7.0	6.5	6.7	8.2	7.7	7.9	7.3	7.1	7.2
17	6.3	6.1	---	7.1	6.7	6.8	8.5	7.9	8.1	7.3	6.6	7.0
18	6.6	5.9	6.3	7.1	6.7	6.9	8.1	7.6	7.9	7.1	6.7	6.9
19	6.5	6.1	6.3	6.9	6.7	6.8	7.9	7.6	7.8	7.0	6.8	7.0
20	6.6	6.3	6.4	6.8	6.6	6.7	8.5	7.3	7.8	7.1	7.0	7.1
21	6.5	6.0	6.3	6.9	6.6	6.8	7.6	6.9	7.2	7.6	7.1	7.3
22	6.5	6.3	6.4	6.8	6.3	6.6	8.3	7.0	7.5	7.3	6.9	7.1
23	6.4	6.1	6.2	6.9	6.6	6.8	8.4	7.1	7.6	7.3	7.0	7.1
24	6.2	6.1	---	6.9	6.7	6.8	8.2	7.2	7.6	7.1	6.8	7.0
25	---	---	---	6.9	6.5	6.7	7.3	6.8	7.0	7.3	6.7	6.9
26	---	---	---	6.7	6.6	6.7	7.1	6.7	6.9	7.4	6.9	7.0
27	---	---	---	6.9	6.5	6.7	7.9	6.7	7.2	7.2	7.0	7.1
28	---	---	---	6.8	6.2	6.6	8.0	6.6	7.0	---	---	---
29	---	---	---	6.6	6.5	6.6	7.1	6.4	6.7	---	---	---
30	---	---	---	6.8	6.4	6.7	6.7	6.4	6.6	---	---	---
31	---	---	---	6.9	6.5	6.7	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	7.9	6.5	7.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	6.6	---	---	---	---	---	---	---	---	---	---
2	6.9	6.8	6.9	---	---	---	---	---	---	---	---	---
3	7.2	6.6	6.8	---	---	---	6.1	5.3	5.8	---	---	---
4	7.0	6.6	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	7.0	6.8	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	6.2	6.2	---	---	---	---	---	---	---	---	---	---
16	6.2	6.1	6.2	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	7.2	6.1	---
18	---	---	---	---	---	---	---	---	---	7.3	5.5	6.3
19	---	---	---	---	---	---	6.9	6.6	6.7	7.3	7.0	7.2
20	---	---	---	6.7	6.6	---	6.8	6.2	6.5	7.1	6.1	6.8
21	---	---	---	6.7	6.3	6.6	6.7	6.4	6.6	7.4	5.4	6.7
22	---	---	---	6.5	6.1	6.4	---	---	---	7.7	7.1	7.4
23	---	---	---	---	---	---	---	---	---	7.3	5.5	6.7
24	---	---	---	---	---	---	6.5	6.2	---	---	---	---
25	---	---	---	---	---	---	6.8	6.5	6.6	---	---	---
26	---	---	---	---	---	---	6.8	6.6	6.7	---	---	---
27	---	---	---	6.6	6.5	---	6.8	6.5	---	---	---	---
28	---	---	---	6.5	6.3	6.4	---	---	---	7.0	6.3	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

RARITAN RIVER BASIN

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	POTASSIUM (K) (MG/L)
01398500 - NO BR RARITAN R NR FAR HILLS NJ (LAT 40 42 30 LONG 074 38 11)										
DEC., 1970 09...	26	--	--	--	--	14	5.3	--	9.2	--
APR., 1971 14...	63	12	--	160	43	9.2	4.5	9.0	--	1.8
JULY 15...	11	--	--	--	--	13	5.2	--	9.7	--
SEP. 24...	67	15	50	180	110	13	4.8	6.4	--	1.5
01400000 - NO BR RARITAN R NR RARITAN NJ (LAT 40 34 10 LONG 074 40 45)										
DEC., 1970 09...	146	--	--	--	--	20	7.0	--	11	--
APR., 1971 14...	373	8.9	--	200	26	13	5.2	11	--	1.9
JULY 15...	52	--	--	--	--	20	7.6	--	16	--
SEP. 22...	429	14	20	170	45	14	6.0	12	--	3.0
01401000 - STONY BR AT PRINCETON NJ (LAT 40 19 59 LONG 074 40 56)										
DEC., 1970 10...	19	--	--	--	--	19	8.8	--	12	--
APR., 1971 16...	37	11	--	150	33	12	6.5	10	--	1.8
JULY 15...	.90	--	--	--	--	17	8.1	--	24	--
SEP. 23...	47	13	38	120	13	13	5.6	8.3	--	2.7
01405400 - MANALAPAN BROOK AT SPOTSWOOD NJ (LAT 40 23 22 LONG 074 23 27)										
DEC., 1970 14...	50	--	--	--	--	9.0	3.8	--	5.7	--
APR., 1971 16...	47	5.4	750	1500	130	6.2	3.3	5.7	--	4.6
JULY 15...	20	--	--	--	--	5.0	2.6	--	8.5	--
SEP. 23...	71	8.1	620	1500	130	7.0	3.3	4.8	--	2.9

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
01398500 - NO BR RARITAN R NR FAR HILLS NJ (LAT 40 42 30 LONG 074 38 11)									
DEC., 1970 09...	43	0	35	20	12	--	4.8	.34	--
APR., 1971 14...	31	0	25	20	14	1.2	2.1	.00	96
JULY 15...	51	0	42	14	12	--	2.0	.23	--
SEP. 24...	34	0	28	20	10	.0	3.3	.12	109
01400000 - NO BR RARITAN R NR RARITAN NJ (LAT 40 34 10 LONG 074 40 45)									
DEC., 1970 09...	62	0	51	28	14	--	2.9	.30	--
APR., 1971 14...	45	0	37	25	14	.5	2.1	.00	116
JULY 15...	79	0	65	27	15	--	3.8	.38	--
SEP. 22...	50	0	41	31	12	.4	3.3	.19	127

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
				01401000 - STONY BR AT PRINCETON NJ (LAT 40 19 59 LONG 074 40 56)					
DEC., 1970 10...	47	0	39	42	16	--	7.2	.06	--
APR., 1971 16...	33	0	27	35	12	.7	2.4	.00	116
JULY 15...	76	0	62	28	25	--	.5	.06	--
SEP. 23...	36	0	30	28	11	.0	3.5	.15	121
				01405400 - MANALAPAN BROOK AT SPOTSWOOD NJ (LAT 40 23 22 LONG 074 23 27)					
DEC., 1970 14...	0	0	0	31	11	--	3.1	.02	--
APR., 1971 16...	0	0	0	36	11	.6	3.2	.00	82
JULY 15...	2	0	2	21	11	--	3.1	.06	--
SEP. 23...	0	0	0	37	10	.2	2.6	.00	78

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
				01398500 - NO BR RARITAN R NR FAR HILLS NJ (LAT 40 42 [illegible] LONG 074 38 11)					
DEC., 1970 09...	--	57	22	--	160	7.5	1	.7	--
APR., 1971 14...	89	42	16	--	151	6.4	3	.7	5.0
JULY 15...	--	54	12	--	165	7.1	5	3.9	--
SEP. 24...	91	52	24	--	152	7.3	5	1.9	3.0
				01400000 - NO BR RARITAN R NR RARITAN NJ (LAT 40 34 10 LONG 074 40 45)					
DEC., 1970 09...	--	79	28	--	208	7.9	4	1.0	--
APR., 1971 14...	104	54	17	--	184	6.1	5	1.0	6.0
JULY 15...	--	82	17	--	244	7.4	10	1.2	--
SEP. 22...	120	60	19	--	184	7.8	9	1.1	5.5
				01401000 - STONY BR AT PRINCETON NJ (LAT 40 19 59 LONG 074 40 56)					
DEC., 1970 10...	--	84	45	--	234	7.5	1	.2	--
APR., 1971 16...	108	57	30	--	189	7.0	3	.8	3.0
JULY 15...	--	76	14	--	268	7.3	15	1.0	--
SEP. 23...	103	56	26	--	173	7.0	25	1.0	6.0
				01405400 - MANALAPAN BROOK AT SPOTSWOOD NJ (LAT 40 23 22 LONG 074 23 27)					
DEC., 1970 14...	--	38	38	--	135	4.2	2	1.9	--
APR., 1971 16...	78	29	29	--	172	4.5	2	.3	2.0
JULY 15...	--	23	22	--	105	5.4	5	2.1	--
SEP. 23...	76	31	31	.3	162	3.9	3	1.0	5.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
01398500 - NO BR RARITAN R NR FAR HILLS NJ (LAT 40 42 30 LONG 074 38 11)											
SEP., 1971 24...	29	<0.4	<2	20	<9	<2	<0.9	18	<0.9	<2	6
01400000 - NO BR RARITAN R NR RARITAN NJ (LAT 40 34 10 LONG 074 40 45)											
SEP., 1971 22...	40	<0.5	<3	37	<12	<3	<2	4	<2	<3	3
01401000 - STONY BR AT PRINCETON NJ (LAT 40 19 59 LONG 074 40 56)											
SEP., 1971 23...	32	<0.4	<2	33	<9	<2	<0.9	4	<0.9	<2	2

DATE	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
01398500 - NO BR RARITAN R NR FAR HILLS NJ (LAT 40 42 30 LONG 074 38 11)										
SEP., 1971 24...	<10	1	12	<0.2	63	<2	3	<.9	<89	<5
01400000 - NO BR RARITAN R NR RARITAN NJ (LAT 40 34 10 LONG 074 40 45)										
SEP., 1971 22...	<10	<2	3	<0.3	76	<3	3	<2.0	<120	<6
01401000 - STONY BR AT PRINCETON NJ (LAT 40 19 59 LONG 074 40 56)										
SEP., 1971 23...	<10	1	3	<0.2	86	<2	3	<.9	<86	<4

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
01398500 - NO BR RARITAN R NR FAR HILLS NJ (LAT 40 42 30 LONG 074 38 11)						
DEC., 1970 09...	1315	2.8	155	9.1	13.6	0
APR., 1971 14...	1430	11.5	150	8.5	12.0	200
JULY 15...	1130	24.2	160	9.8	7.6	100
SEP. 24...	1030	16.0	140	7.9	9.6	320
01400000 - NO BR RARITAN R NR RARITAN NJ (LAT 40 34 10 LONG 074 40 45)						
DEC., 1970 09...	1415	.5	200	9.1	14.4	1000
APR., 1971 14...	1615	13.1	190	9.2	7.1	460
JULY 15...	1215	24.4	230	7.9	7.6	1000
SEP. 22...	1300	18.8	160	7.6	9.2	104000

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

01401000 - STONY BR AT PRINCETON NJ (LAT 40 19 59 LONG 074 40 56)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
DEC., 1970						
10...	1230	3.2	240	6.8	15.0	112
APR., 1971						
16...	0945	8.2	200	7.8	13.8	191
JULY						
15...	1330	26.2	--	8.2	8.2	1400
SEP.						
23...	1500	19.5	220	7.7	9.2	280

01405400 - MANALAPAN BROOK AT SPOTSWOOD NJ (LAT 40 23 22 LONG 074 23 27)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
DEC., 1970						
14...	1030	3.6	130	5.5	12.0	--
APR., 1971						
16...	1430	10.9	165	4.2	10.6	105
JULY						
15...	1315	23.3	100	5.3	8.6	580
SEP.						
23...	1400	19.2	200	4.2	7.8	4750

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

01398500 - NO BR RARITAN R NR FAR HILLS NJ (LAT 40 42 30 LONG 074 38 11)

DATE	TIME	DISCHARGE (CFS)	CONCENTRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCENTRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
OCT 15, 1970	1410	27	14	1.0	JUL 30......	1040	28	12	.91
JAN 1, 1971	1300	201	4	2.2	JUL 30......	1140	31	14	1.2
JUL 15......	1130	13	7	.25					

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

(METHODS OF ANALYSIS: B, BOTTOM WITHDRAWAL TUBE; C, CHEMICALLY DISPERSED; N, IN NATIVE WATER; P, PIPET; S, SIEVE; V, VISUAL ACCUMULATION TUBE; W, IN DISTILLED WATER)

01400000 - NO BR RARITAN R NR RARITAN, N. J. (LAT 40 34 10 LONG 074 40 45.0)

DATE	TIME	WATER TEMPERATURE (C)	DISCHARGE (CFS)	CONCENTRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	PARTICLE SIZE PERCENT FINER THAN THE SIZE (IN MILLIMETERS) INDICATED .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	METHOD OF ANALYSIS
OCT 15, 1970	1330	19.6	76	18	3.7	--	--	--	--	--	--	--	--	--	--	--	
FEB 8, 1971	1150	0.5	2200	227	1350	--	--	--	--	--	--	--	--	--	--	--	
FEB 8......	1355	1.0	1810	125	611	--	--	--	--	--	--	--	--	--	--	--	
FEB 23......	1030		1920	141	731	--	--	--	--	--	--	--	--	--	--	--	
FEB 23......	1030	2.0	1920	140	726	30	46	64	79	90	97	98	99	100	--	--	SCBW
FEB 23......	1315	3.0	1530	96	397	--	--	--	--	--	--	--	--	--	--	--	
FEB 23......	1450	3.0	1390	91	342	--	--	--	--	--	--	--	--	--	--	--	
JUL 15......	1215	24.4	52	33	4.6	--	--	--	--	--	--	--	--	--	--	--	
JUL 30......	1010	24.0	185	119	59	--	--	--	--	--	--	--	--	--	--	--	
JUL 30......	1315	23.0	445	925	1110	--	--	--	--	--	--	--	--	--	--	--	
AUG 27......	1130	20.0	260	89	62	--	--	--	--	--	--	--	--	--	--	--	
AUG 27......	1340	19.0	1250	915	3090	--	--	--	--	--	--	--	--	--	--	--	

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

01400500 - RARITAN RIVER AT MANVILLE, N. J. (LAT 40 33 18 LONG 074 35 02.0)

DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
OCT 25, 1970	1300	760	25	51	FEB 23......	1515	4850	306	4010
FEB 8, 1971	1120	6480	275	4810	JUL 30......	0945	822	110	244
FEB 8......	1420	5850	255	4030	JUL 30......	1345	1320	319	1140
FEB 9......	1245	4540	153	1880	AUG 27......	1105	854	76	175
FEB 23......	0950	5990	398	6440	AUG 27......	1405	2280	530	3260
FEB 23......	1340	5390	222	3230					

01401000 - STONY BROOK AT PRINCETON, N. J. (LAT 40 19 59 LONG 074 40 56)

DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
DEC 17, 1970	0910	1010	237	646	FEB 9......	1350	300	62	50
DEC 17......	1115	778	131	275	FEB 23......	1635	405	75	82
FEB 8, 1971	1625	506	85	116					

01402000 - MILLSTONE RIVER AT BLACKWELLS MILLS, N. J. (LAT 40 28 30 LONG 074 34 34)

DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
OCT 13, 1970	1210	48	14	1.8	APR 7......	1400	2020	197	1070
NOV 2......	0905	66	12	2.1	MAY 13......	1215	219	79	47
JAN 5, 1971	1115	1640	83	368	MAY 13......	1510	530	116	166
FEB 8......	1555	2600	96	674	JUL 30......	0845	121	91	30
FEB 9......	1310	2950	128	1020	JUL 30......	1415	778	944	1980
FEB 23......	0830	2100	181	1030	AUG 27......	0955	345	63	59
FEB 23......	1420	2220	82	492	AUG 27......	1450	2500	927	6260
FEB 23......	1605	2230	64	385					

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

(METHODS OF ANALYSIS: B, BOTTOM WITHDRAWAL TUBE; C, CHEMICALLY DISPERSED; N, IN NATIVE WATER; P, PIPET; S, SIEVE; V, VISUAL ACCUMULATION TUBE; W, IN DISTILLED WATER)

01403300 - RARITAN RIVER, AT QUEENS BRIDGE, AT BOUND BROOK, N. J. (LAT 40 33 34 LONG 074 31 41)

						PARTICLE SIZE											
						PERCENT FINER THAN THE SIZE (IN MILLIMETERS) INDICATED											
DATE	TIME	WATER TEMP-PERA-TURE (C)	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	.002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	METHOD OF ANALY-SIS
OCT 15, 1970	1240	21.0	280	31	23	--	--	--	--	--	--	--	--	--	--	--	
JAN 5, 1971	1135		6510	92	1620	--	--	--	--	--	--	--	--	--	--	--	
JAN 5......	1345		7460	87	1750	--	--	--	--	--	--	--	--	--	--	--	
FEB 8......	1040	0.5	10700	298	8610	--	--	--	--	--	--	--	--	--	--	--	
FEB 8......	1040	0.5	10500	292	8280	35	49	64	78	89	96	98	99	100	--	--	SCBW
FEB 8......	1440	0.5	9960	223	6000	--	--	--	--	--	--	--	--	--	--	--	
FEB 9......	1215		9620	154	4000	--	--	--	--	--	--	--	--	--	--	--	
FEB 23......	0915		9720	319	8370	--	--	--	--	--	--	--	--	--	--	--	
FEB 23......	0915	2.0	9720	326	8560	25	38	53	70	86	97	99	100	--	--	--	SCBW
FEB 23......	1400	3.0	9280	212	5310	--	--	--	--	--	--	--	--	--	--	--	
FEB 23......	1545	3.0	8500	185	4250	--	--	--	--	--	--	--	--	--	--	--	
APR 7......	1340	4.5	12600	413	14100	--	--	--	--	--	--	--	--	--	--	--	
MAY 13......	1245		1310	105	371	--	--	--	--	--	--	--	--	--	--	--	
MAY 13......	1545		2130	218	1250	--	--	--	--	--	--	--	--	--	--	--	
JUL 30......	0920	25.0	291	35	27	--	--	--	--	--	--	--	--	--	--	--	
JUL 30......	1405	23.0	2370	631	4040	--	--	--	--	--	--	--	--	--	--	--	
AUG 27......	1035	22.0	550	98	146	--	--	--	--	--	--	--	--	--	--	--	

01407810 MANASQUAN RIVER AT ELTON, N. J.

LOCATION.--Lat 40°12'27", long 74°19'45", Monmouth County, at bridge on Burke Road, *0.9 mile southeast* of Elton.
DRAINAGE AREA.--1.32 sq mi.
PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
JAN. 28...	--	--	--	--	16	5.0	--	44	--
FEB. 24...	--	--	--	--	14	4.0	--	30	--
MAY 07...	20	340	--	170	16	5.0	20	--	14
JUNE 24...	--	--	--	--	18	5.0	--	21	--
AUG. 11...	21	--	55000	200	20	4.5	4.2	--	6.0
31...	26	10	27000	125	14	4.7	12	--	9.4
SEP. 30...	--	--	--	--	14	4.1	--	--	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
JAN. 28...	0	0	0	123	26	--	.0	.01
FEB. 24...	0	0	0	102	21	--	.0	.02
MAY 07...	1	0	1	72	30	.2	--	.08
JUNE 24...	0	0	0	71	26	--	.0	.08
AUG. 11...	3	0	2	34	32	.3	.0	.16
31...	0	0	0	90	22	.4	.1	.01
SEP. 30...	0	0	0	68	24	--	2.0	.01

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN. 28...	--	--	61	61	.6	450	3.5	8	--	--
FEB. 24...	--	--	52	52	.4	358	4.0	12	>8.8	--
MAR. 08...	--	--	--	--	--	--	--	--	>17	--
APR. 08...	--	--	--	--	--	--	--	--	23	--
MAY 07...	214	--	57	56	.2	377	4.6	110	21	85
JUNE 24...	--	--	66	66	--	265	4.6	6	>22	--
AUG. 11...	145	124	69	66	--	206	5.5	5	55	--
31...	174	179	55	55	.3	356	3.7	25	36	30
SEP. 30...	--	--	52	32	.4	281	4.0	--	52	--

01407810 MANASQUAN RIVER AT ELTON, N. J.--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT.						
06...	1700	14.0	375	6.5	.4	60
JAN.						
28...	1100	3.3	430	5.5	4.8	10000
FEB.						
17...	1015	4.0	400	5.7	7.6	625
24...	1130	4.8	375	5.1	7.2	156
MAR.						
08...	1015	3.6	290	5.3	9.4	105
APR.						
08...	0945	5.5	295	5.7	8.8	720
MAY						
07...	1245	14.9	475	6.3	3.7	720
JUNE						
24...	1000	13.0	220	6.2	2.7	3400
AUG.						
11...	0830	16.2	290	6.3	.6	1425
31...	0830	16.2	320	--	--	2500
SEP.						
30...	0800	15.0	260	6.7	4.7	1500

01407821 MANASQUAN RIVER AT GEORGIA ROAD, NEAR GEORGIA, N.J.

LOCATION.--Lat 40°12'42", long 74°17'46", Monmouth County, at bridge on Georgia Road, 1.7 miles north of Georgia.
DRAINAGE AREA.--6.94 sq mi.
PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO- TAS- SIUM (NA+K) (MG/L)	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
JAN.									
28...	--	--	14	3.4	--	18	--	0	0
FEB.									
24...	--	--	12	4.0	--	15	--	0	0
MAY									
07...	16	90	13	3.4	8.0	--	5.9	0	0
JUNE									
24...	--	--	14	4.0	--	6.9	--	0	0

DATE	ALKA- LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)
JAN.								
28...	0	70	15	--	1.9	.00	--	--
FEB.								
24...	0	63	13	--	5.7	.02	--	--
MAY								
07...	0	49	15	.2	3.1	.15	110	114
JUNE								
24...	0	49	12	--	2.0	.01	--	--

01407821 MANASQUAN RIVER AT GEORGIA ROAD, NEAR GEORGIA, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN. 28...	49	49	.4	266	3.8	1	6.2	--
FEB. 17...	--	--	--	--	--	--	6.2	--
24...	47	47	.5	265	3.8	12	5.0	--
MAR. 08...	--	--	--	--	--	--	2.6	--
APR. 08...	--	--	--	--	--	--	2.7	--
MAY 07...	47	47	--	199	4.2	2	--	17
07...	--	--	--	--	--	--	>8.8	--
JUNE 24...	52	52	.2	189	4.2	3	6.2	--

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT. 06...	1600	10.5	185	6.0	8.6	320
JAN. 28...	1130	.5	230	6.0	10.8	50
FEB. 17...	1115	4.0	230	6.9	11.4	0
24...	1225	4.4	225	4.9	11.2	10
MAR. 08...	1030	3.4	155	5.3	11.9	--
APR. 08...	1015	5.9	125	5.8	11.2	--
MAY 07...	1230	16.0	225	6.9	7.8	10
JUNE 24...	1045	17.6	220	6.5	6.8	3440

01407862 DEBOIS CREEK AT WYCKOFF MILLS, N. J.

LOCATION.--Lat 40°12'33", long 74°16'08", Monmouth County, at bridge on Strickland Road, 0.8 mile northwest of Wyckoff Mills and 0.2 mile upstream from mouth.
DRAINAGE AREA.--7.67 sq mi.
PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	POTASSIUM (K) (MG/L)
JAN. 28...	--	--	--	13	3.7	--	40	--
FEB. 24...	--	--	--	14	4.8	--	29	--
MAY 07...	11	--	88	15	4.6	24	--	5.2
JUNE 24...	--	--	--	14	3.9	--	46	--
AUG. 11...	14	300	70	17	3.9	72	--	7.2
31...	12	500	90	15	4.0	32	--	6.7
SEP. 30...	--	--	--	14	4.8	--	42	--

01407862 DEBOIS CREEK AT WYCKOFF MILLS, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
JAN. 28...	49	0	40	33	34	--	17	1.1
FEB. 24...	69	0	57	31	21	--	.1	.93
MAY 07...	51	0	42	28	24	.4	6.5	1.0
JUNE 24...	36	0	30	31	43	--	34	2.9
AUG. 11...	59	0	48	25	79	.0	28	5.6
31...	43	0	35	30	38	.3	10	.66
SEP. 30...	62	0	51	22	39	--	20	1.2

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN. 28...	--	--	48	8	292	6.2	5	>7.6	--
FEB. 17...	--	--	--	--	--	--	--	>8.0	--
24...	--	--	55	0	260	6.7	38	>8.2	--
APR. 09...	--	--	--	--	--	--	--	15	--
MAY 07...	153	144	57	15	250	7.3	30	>24	26
JUNE 03...	--	--	--	--	--	--	--	7.3	--
24...	--	--	51	22	333	6.7	10	4.5	--
AUG. 11...	267	275	59	10	483	6.6	20	10	12
31...	171	169	54	19	300	7.3	10	8.5	9.5
SEP. 30...	--	--	55	4	316	7.6	5	56	--

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 06...	0900	16.0	425	7.0	.4	--
JAN. 28...	1230	2.8	300	6.8	7.8	1300
FEB. 17...	1130	5.0	325	6.8	7.0	6500
24...	1315	7.3	250	6.6	5.2	7400
APR. 09...	1315	13.9	250	6.3	6.0	12000
MAY 07...	1215	17.2	260	7.3	1.6	17600
JUNE 03...	1300	20.2	260	6.8	2.5	20800
24...	1115	21.8	380	7.1	4.0	3750
AUG. 11...	0930	22.6	430	7.0	2.6	1200000
31...	0930	20.6	320	--	3.0	--
SEP. 30...	0915	18.0	300	7.0	1.0	34000

01407870 MANASQUAN RIVER AT WYCKOFF MILLS, N. J.

LOCATION.--Lat 40°12'12", long 074°15'45", Monmouth County, about 1,500 feet upstream from U.S. Route 9 bridge, at Wyckoff Mills and about 1,000 ft downstream of Debois Creek.
DRAINAGE AREA.--21.9
PERIOD OF RECORD.--Chemical Analyses: October 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	POTASSIUM (K) (MG/L)
JAN. 28...	--	--	--	15	3.7	--	24	--
FEB. 24...	--	--	--	15	4.0	--	17	--
MAY 07...	13	--	80	16	4.5	17	--	5.4
JUNE 24...	--	--	--	18	3.6	--	27	--
AUG. 11...	15	210	60	20	3.5	64	--	7.0

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)
JAN. 28...	8	0	7	46	26	--	18	.16
FEB. 24...	5	0	4	47	17	--	17	.10
MAY 07...	25	0	21	35	21	.1	14	.58
JUNE 24...	27	0	22	36	30	--	20	1.5
AUG. 11...	40	0	33	30	81	.1	25	2.2

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN. 28...	--	--	53	46	253	5.9	5	9.2	--
FEB. 17...	--	--	--	--	--	--	--	7.4	--
24...	--	--	54	50	207	5.3	3	7.7	--
MAR. 08...	--	--	--	--	--	--	--	5.4	--
APR. 08...	--	--	--	--	--	--	--	5.6	--
MAY 07...	137	139	59	38	220	6.2	10	>8.8	15
JUNE 24...	--	--	60	38	274	6.5	6	3.8	--
AUG. 11...	270	265	65	32	465	7.4	10	7.6	--

01407870 MANASQUAN RIVER AT WYCKOFF MILLS, N. J.--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.						
06...	0800	13.0	400	7.2	2.0	3400
JAN.						
28...	1400	1.0	275	6.6	9.8	210
FEB.						
17...	1145	4.4	260	6.6	10.4	1800
24...	1245	5.0	220	6.3	8.6	240
MAR.						
08...	1100	3.7	215	6.3	10.2	1600
APR.						
08...	1030	6.5	195	6.0	9.3	630
MAY						
07...	1200	14.6	250	7.0	5.6	1120
JUNE						
24...	1145	21.2	320	6.8	4.3	14500
AUG.						
11...	1000	22.4	410	7.0	.2	40000

01407880 MANASQUAN RIVER AT FAIRFIELD, N. J.

LOCATION.--Lat 40°12'04", long 74°12'46", Monmouth County, at bridge on Ketcham Road, 0.3 mile south of Fairfield and 1.3 miles southeast of Ardena.
DRAINAGE AREA.--28.3 sq mi.
PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
JAN.								
28...	--	--	--	20	3.5	--	22	--
MAY								
06...	13	--	84	20	3.7	14	--	4.1
JUNE								
24...	--	--	--	25	3.1	--	17	--
AUG.								
31...	13	570	49	15	3.4	16	--	7.3
SEP.								
30...	--	--	--	18	4.0	--	20	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
JAN.								
28...	24	0	20	42	25	--	17	.34
MAY								
06...	40	0	33	37	16	.2	5.8	.63
JUNE								
24...	47	0	39	33	21	--	13	.34
AUG.								
31...	21	0	17	39	20	.3	11	.37
SEP.								
30...	37	0	30	29	26	--	11	.51

01407380 MANASQUAN RIVER AT FAIRFIELD, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN. 28...	--	--	65	45	260	6.7	1	7.6	--
FEB. 17...	--	--	--	--	--	--	--	5.8	--
APR. 08...	--	--	--	--	--	--	--	4.0	--
MAY 06...	146	134	65	32	216	6.8	12	4.2	9.5
JUNE 24...	--	--	75	37	267	7.4	7	4.3	--
AUG. 31...	147	135	52	35	217	6.9	5	4.2	5.0
SEP. 30...	--	--	62	31	248	6.7	25	12	--

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 05...	1700	12.0	300	7.4	4.0	--
JAN. 28...	1645	1.2	205	6.9	10.6	1500
FEB. 17...	1230	4.4	245	6.7	8.8	4500
APR. 08...	1400	7.6	180	6.1	8.9	318
MAY 06...	1330	13.9	230	6.3	6.1	360
JUNE 24...	1230	19.6	285	6.1	5.1	20000
AUG. 31...	1100	18.2	220	--	6.0	7800
SEP. 30...	1000	17.0	290	7.1	3.8	23800

01407892 MANASQUAN RIVER TRIBUTARY NO 7 NEAR FARMINGDALE, N. J.

LOCATION.--Lat 40°12'07", long 74°12'10", Monmouth County, 100 feet downstream of partial-record gaging station at bridge at intersection of N.J. Route 524 and Squankum-Yellow Brook Road, 0.3 mile upstream from mouth, 0.8 mile north of West Farms, and 1.8 miles west of Farmingdale.

DRAINAGE AREA.--3.57 sq mi.

PERIOD OF RECORD.--Chemical Analyses: October 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
JAN. 28...	--	--	--	18	1.4	--	4.8	--
FEB. 26...	--	--	--	13	1.5	--	7.6	--
MAY 07...	14	--	46	22	2.1	3.7	--	2.6
JUNE 25...	--	--	--	25	1.8	--	4.1	--
AUG. 11...	19	550	26	29	1.7	3.7	--	2.8
31...	13	1300	53	12	1.5	4.8	--	4.0
SEP. 30...	--	--	--	18	1.7	--	3.7	--

01407892 MANASQUAN RIVER TRIBUTARY NO 7 NEAR FARMINGDALE, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
JAN.								
28...	29	0	24	27	6.9	--	.3	.03
FEB.								
26...	17	0	14	29	7.7	--	.2	.03
MAY								
07...	38	0	31	27	7.5	.1	.4	.03
JUNE								
25...	59	0	48	24	3.9	--	.0	.04
AUG.								
11...	68	0	56	23	6.7	.2	.0	.06
31...	13	0	11	28	7.4	.2	.3	.01
SEP.								
30...	34	0	28	21	7.0	--	.1	.02

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN.									
28...	--	--	51	27	144	7.2	4	.4	--
FEB.									
19...	--	--	--	--	--	--	--	.2	--
26...	--	--	39	25	120	7.3	4	.6	--
APR.									
08...	--	--	--	--	--	--	--	.3	--
MAY									
07...	106	98	64	33	149	7.5	13	.4	3.0
JUNE									
04...	--	--	--	--	--	--	--	.4	--
25...	--	--	70	22	179	7.2	10	.8	--
JULY									
23...	--	--	--	--	--	--	--	.6	--
AUG.									
11...	141	120	80	24	187	7.4	5	.7	2.5
31...	78	78	36	26	117	6.9	3	.4	6.5
SEP.									
30...	--	--	52	24	137	7.1	5	.2	--

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.						
05...	1800	13.1	180	7.0	9.0	--
JAN.						
28...	1445	4.7	160	6.7	11.0	0
FEB.						
19...	1440	6.2	120	--	10.6	0
26...	1030	5.5	137	6.4	11.0	2
APR.						
08...	1100	7.0	105	5.9	10.5	0
MAY						
07...	1130	14.4	170	7.5	8.6	0
JUNE						
04...	1200	16.0	75	6.9	8.0	230
25...	1000	14.9	200	6.0	8.4	--
JULY						
23...	1030	16.3	200	6.2	8.9	150
AUG.						
11...	1200	20.0	170	6.5	5.2	875
31...	1130	17.1	115	--	8.0	880
SEP.						
30...	1015	14.2	110	7.0	9.3	120

01407910 MANASQUAN RIVER AT FARMINGDALE, N. J.

LOCATION.--Lat 40°11'02", long 74°79'10", Monmouth County, at bridge on Preventorium Road, 1.0 mile southwest of Farmingdale and 1.7 miles northwest of Squankum.
DRAINAGE AREA.--34.3 sq mi.

PERIOD OF RECORD.--Chemical Analyses: October 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)
JAN. 29...	21	3.3	14	32	0	26	37	16
FEB. 25...	18	3.4	13	19	0	16	42	14
JUNE 24...	24	3.0	16	55	0	45	35	13

DATE	NITRATE (NO3) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
JAN. 29...	11	.26	66	40	226	6.6	3	4.8
FEB. 18...	--	--	--	--	--	--	--	4.2
25...	10	.35	59	44	196	6.4	3	7.1
MAR. 09...	--	--	--	--	--	--	--	3.9
APR. 08...	--	--	--	--	--	--	--	3.0
JUNE 24...	10	.17	72	28	236	7.2	3	3.7

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT. 05...	1300	12.5	275	7.3	6.4	--
JAN. 29...	1415	1.7	245	6.3	10.8	25
FEB. 18...	1345	6.9	230	7.1	10.0	480
25...	1300	6.6	210	6.5	8.4	400
MAR. 09...	1300	4.7	200	6.6	11.2	1620
APR. 08...	1215	7.5	175	5.8	9.6	200
JUNE 24...	1300	19.0	265	--	6.2	2500

01407970 MANASQUAN RIVER TRIBUTARY NEAR FARMINGDALE, N. J.

LOCATION.--Lat 40°10'47", long 74°11'22", Monmouth County, at partial-record gaging station at bridge on Manasse Road, 1.0 mile upstream from mouth and 1.6 miles southwest of Farmingdale.
DRAINAGE AREA.--3.38 sq mi.
PERIOD OF RECORD.--Chemical analyses: January to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
MAY 06...	4.4	--	31	5.6	1.3	4.5	--	2.6	3	0
JUNE 25...	--	--	--	6.2	1.6	--	9.4	--	12	0
AUG. 11...	7.6	700	40	7.8	1.5	5.3	--	2.4	14	0
31...	7.3	1300	50	6.9	5.7	4.6	--	6.0	3	0
SEP. 30...	--	--	--	5.0	1.2	--	5.5	--	2	0

DATE	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
MAY 06...	2	18	7.3	.2	2.3	.08	59	48
JUNE 25...	10	21	6.2	--	2.6	.60	--	--
AUG. 11...	11	15	7.3	.1	1.6	.34	70	56
31...	2	22	20	.3	1.1	.12	72	75
SEP. 30...	2	15	7.3	--	2.2	.08	--	--

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN. 15...	--	--	--	--	--	--	2.2	--
FEB. 18...	--	--	--	--	--	--	.8	--
APR. 08...	--	--	--	--	--	--	.6	--
MAY 06...	20	17	--	76	5.7	30	2.1	9.0
28...	--	--	--	--	--	--	.9	--
JUNE 25...	22	12	--	83	6.2	100	2.4	--
JULY 23...	--	--	--	--	--	--	2.2	--
AUG. 11...	26	14	--	88	7.1	60	1.8	11
31...	41	38	.2	96	4.6	11	1.9	15
SEP. 30...	18	16	--	72	5.6	30	.7	--

01407970 MANASQUAN RIVER TRIBUTARY NEAR FARMINGDALE, N.J.--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
JAN.						
15...	1430	1.2	98	5.0	12.2	230
FEB.						
18...	1500	2.0	95	5.4	12.0	30
APR.						
08...	1130	5.9	95	4.2	11.0	44
MAY						
06...	1215	--	80	6.8	8.9	370
28...	1130	13.5	85	5.4	6.7	1230
JUNE						
25...	1115	20.8	92	5.4	2.5	675
JULY						
23...	1215	20.6	90	7.4	5.8	238
AUG.						
11...	1130	23.9	80	6.0	9.8	800
31...	1215	19.0	85	6.0	9.8	3600
SEP.						
30...	1115	16.2	--	6.6	7.3	780

01407997 MARSH BOG BROOK AT SQUANKUM, N. J.

LOCATION.--Lat 40°10'01", long 74°09'33", Monmouth County, at bridge on Squankum-Yellow Brook Road at Squankum, N.J., and 0.2 mi upstream from mouth.
DRAINAGE AREA.--4.91 sq mi.
PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
JAN.									
29...	--	--	--	--	10	1.7	--	12	--
FEB.									
25...	--	--	--	--	6.5	1.5	--	10	--
MAY									
06...	10	--	--	46	8.0	1.7	5.5	--	2.9
JUNE									
24...	--	--	--	--	11	2.3	--	17	--
AUG.									
11...	9.4	--	320	35	15	2.4	6.6	--	3.6
31...	7.7	910	660	90	6.1	2.0	11	--	2.5

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
JAN.								
29...	8	0	7	25	16	--	3.2	.02
FEB.								
25...	3	0	2	24	11	--	1.6	.01
MAY								
06...	5	0	4	21	10	.2	1.7	.02
JUNE								
24...	32	0	26	15	21	--	2.5	.03
AUG.								
11...	33	0	27	20	11	.2	2.5	.07
31...	0	0	0	37	12	.5	2.2	.00

01407997 MARSH BOG BROOK AT SQUANKUM, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN.										
29...	--	--	32	26	--	146	6.7	1	1.0	--
FEB.										
18...	--	--	--	--	--	--	--	--	1.2	--
25...	--	--	22	20	--	106	5.2	4	.9	--
MAR.										
30...	--	--	--	--	--	--	--	--	.7	--
APR.										
08...	--	--	--	--	--	--	--	--	.5	--
MAY										
06...	77	63	27	23	--	108	6.1	10	1.7	4.0
JUNE										
04...	--	--	--	--	--	--	--	--	.8	--
24...	--	--	37	11	--	185	7.2	40	1.5	--
AUG.										
11...	98	87	48	21	--	143	7.2	10	.8	10
31...	79	82	23	23	.6	135	4.0	3	.6	8.0

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.						
05...	1300	12.5	230	7.3	8.6	--
JAN.						
29...	1345	.3	160	6.1	10.0	250
FEB.						
18...	1215	3.3	120	6.9	12.0	0
25...	1245	4.4	110	5.5	12.6	2
MAR.						
30...	1330	7.2	105	7.2	11.6	6
APR.						
08...	1145	7.1	100	4.7	10.9	28
MAY						
06...	1245	13.3	110	6.7	9.7	176
JUNE						
04...	1010	18.0	130	6.7	8.6	2150
24...	1415	21.8	200	6.0	6.0	18000
AUG.						
11...	1215	23.0	140	--	6.6	17500
31...	1345	19.6	120	--	8.4	3800

01408000 MANASQUAN RIVER AT SQUANKUM, N. J.

LOCATION.--Lat 40°09'47", long 74°09'21", Monmouth County, water-quality recorder at bridge on N.J. Route 547 in Squankum.
DRAINAGE AREA.--43.4 sq mi.
PERIOD OF RECORD.--Chemical analyses: Water years 1963-68 (partial-record station), July 1969 to September 1971.
Water temperatures: July 1969 to September 1971.
EXTREMES.--1970-71:
Specific conductance: Maximum, 436 micromhos Aug. 27; minimum, 83 micromhos Feb. 8.
Dissolved oxygen: Maximum, 13.8 mg/l Jan. 14; minimum, 1.9 mg/l Nov. 9-10.
Water temperatures: Maximum, 24.0°C July 1, Aug. 2; minimum, freezing point on several days during winter months.
pH: Maximum, 9.2 Aug. 27; minimum, 5.2 Jan. 5.
Period of record:
Specific conductance: Maximum, 436 micromhos Aug. 27, 1971; minimum, 83 micromhos Feb. 8, 1971.
Dissolved oxygen: Maximum, 13.8 mg/l Jan. 14, 1971; minimum, 1.9 mg/l Nov. 9-10, 1970.
Water temperatures: Maximum, 24.0 July 1, Aug. 2, 1971; minimum, freezing point on many days during winter months.
pH: Maximum, 9.2 Aug. 27, 1971; minimum, 5.2 Dec. 22, 25, 1969 and Jan. 5, 1971.
REMARKS.--Missing continuous water-quality records due to malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	POTASSIUM (K) (MG/L)
OCT.									
05...	25	--	--	--	--	--	--	--	--
13...	24	16	610	50	23	2.5	19	--	4.8
NOV.									
16...	90	--	--	--	17	2.9	--	9.4	--
DEC.									
10...	37	--	--	--	21	3.3	--	14	--
JAN.									
15...	62	14	--	--	19	4.0	39	--	3.8
FEB.									
18...	63	--	--	--	15	3.1	--	40	--
26...	77	--	--	--	16	3.1	--	13	--
MAR.									
09...	107	--	--	--	--	--	--	--	--
30...	63	--	--	--	17	2.5	--	11	--
APR.									
09...	145	--	--	--	--	--	--	--	--
27...	56	13	380	64	16	3.0	10	--	3.5
MAY									
07...	62	11	--	55	17	3.0	10	--	3.6
JUNE									
03...	57	--	--	--	--	--	--	--	--
24...	29	--	--	--	22	3.2	--	13	--
JULY									
23...	26	--	--	--	--	--	--	--	--
AUG.									
11...	35	15	230	55	27	3.0	20	--	4.5
31...	82	13	250	110	19	2.4	9.8	--	4.2
SEP.									
30...	62	12	900	92	17	3.4	14	--	4.3

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)
OCT.								
13...	60	0	49	29	21	.2	15	.31
NOV.								
16...	5	0	4	43	14	--	8.0	.00
DEC.								
10...	43	0	35	33	13	--	10	.20
JAN.								
15...	20	0	16	37	61	.3	12	.16
FEB.								
18...	20	0	16	36	18	--	8.4	.28
26...	18	0	15	38	15	--	7.0	.45
MAR.								
30...	24	0	20	34	14	--	4.0	.18
APR.								
27...	29	0	24	32	13	.1	7.0	.09
MAY								
07...	28	0	23	31	13	.2	3.6	.32
JUNE								
24...	50	0	41	38	12	--	8.9	.13
AUG.								
11...	58	0	48	31	30	.2	9.6	.22
31...	16	0	13	37	16	.3	7.3	.14
SEP.								
30...	35	0	29	30	19	.2	7.4	.40

01408000 MANASQUAN RIVER AT SQUANKUM, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.									
13...	169	160	68	19	256	7.3	10	4.5	--
NOV.									
16...	--	--	55	51	184	6.2	10	2.0	--
DEC.									
10...	--	--	66	31	209	7.0	3	3.6	--
JAN.									
15...	215	200	64	48	355	6.8	3	6.0	--
FEB.									
18...	--	--	51	34	199	6.6	7	3.0	--
26...	--	--	53	38	184	6.5	38	3.0	--
MAR.									
09...	--	--	--	--	--	--	--	4.0	--
30...	--	--	52	33	190	6.6	5	1.5	--
APR.									
09...	--	--	--	--	--	--	--	2.4	--
27...	128	112	53	29	193	6.0	8	1.7	5.5
MAY									
07...	116	106	55	32	174	6.7	13	3.5	8.0
JUNE									
03...	--	--	--	--	--	--	--	1.7	--
24...	--	--	68	27	222	7.0	5	2.5	--
JULY									
23...	--	--	--	--	--	--	--	3.0	--
AUG.									
11...	175	169	80	33	289	7.7	5	4.7	5.0
31...	115	117	58	45	181	7.2	10	1.1	5.5
SEP.									
30...	132	132	57	28	189	7.6	25	3.2	7.5

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT.								
13...	--	10	--	--	--	--	1	--
SEP.								
30...	74	--	35	<0.6	3	48	<27	<3

DATE	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)
OCT.									
13...	0	1	--	--	--	4	--	.0	--
SEP.									
30...	--	<2	4	<13	<6	3	<10	--	0.6

DATE	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
OCT.								
13...	--	--	--	--	--	--	13	--
SEP.								
30...	16	<0.3	80	<3	2	<2.0	<130	<6

01408000 MANASQUAN RIVER AT SQUANKUM, N. J.--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.						
05...	1200	10.7	250	7.8	7.0	--
13...	1400	15.8	260	7.1	6.0	325
NOV.						
16...	1000	10.5	180	6.1	8.2	4900
DEC.						
10...	1400	7.3	200	7.1	9.2	500
JAN.						
15...	1300	4.0	350	7.0	10.8	2650
FEB.						
18...	1130	4.5	200	7.3	11.4	825
26...	1300	5.5	200	6.4	11.0	440
MAR.						
09...	1145	3.7	180	7.0	11.4	650
30...	1200	7.5	195	6.7	10.2	300
APR.						
09...	1045	8.7	160	7.0	10.0	150
27...	1400	12.3	200	7.0	10.1	275
MAY						
07...	1015	12.6	195	7.0	8.1	1000
JUNE						
03...	1145	16.9	200	7.1	7.4	3500
24...	1345	20.0	245	6.2	6.1	32600
JULY						
23...	1400	19.8	260	7.8	7.1	1800
AUG.						
11...	1115	21.0	280	--	6.0	15000
31...	1445	19.2	180	--	6.8	10500
SEP.						
30...	1200	18.2	--	6.6	7.4	2900

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
DEC 10, 1970	1100	37	14	1.4	APR 8......	1415	230	42	26
MAR 9, 1971	1130	104	31	8.7	JUL 30......	1100	25	7	.47

01408000 MANASQUAN RIVER AT SQUANKUM, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	283	182	213	---	---	---	210	182	---	212	176	196
2	283	181	244	---	---	---	218	193	---	208	170	185
3	282	191	234	---	---	---	220	180	189	228	182	198
4	204	182	193	224	121	190	221	188	---	219	180	196
5	218	179	194	188	123	166	203	180	187	200	133	152
6	231	171	192	199	181	185	201	181	192	162	141	154
7	---	---	---	215	177	193	206	182	194	178	161	166
8	---	---	---	215	177	196	206	190	196	180	174	---
9	---	---	---	212	176	196	228	180	194	---	---	---
10	289	242	255	218	182	201	213	188	---	---	---	---
11	261	230	244	232	188	208	218	199	209	---	---	---
12	279	226	247	227	184	194	203	186	194	---	---	---
13	284	244	262	188	159	172	212	191	---	186	174	---
14	270	227	246	203	161	185	201	186	190	---	---	---
15	244	225	234	---	---	---	202	185	192	---	---	---
16	243	209	222	---	---	---	211	180	194	---	---	---
17	---	---	---	---	---	---	192	110	138	---	---	---
18	---	---	---	208	183	192	172	160	166	---	---	---
19	---	---	---	220	173	194	175	170	172	---	---	---
20	---	---	---	214	180	191	188	172	178	---	---	---
21	256	232	242	200	159	176	198	178	187	---	---	---
22	265	217	243	229	174	187	188	175	---	---	---	---
23	225	187	206	193	172	180	203	173	---	---	---	---
24	259	221	232	217	177	187	206	171	180	---	---	---
25	262	221	242	214	181	196	193	174	---	---	---	---
26	---	---	---	197	181	188	192	171	179	---	---	---
27	---	---	---	219	184	195	227	172	194	---	---	---
28	269	244	254	214	182	---	227	187	---	---	---	---
29	250	228	237	204	181	190	210	170	---	---	---	---
30	244	190	233	217	180	191	204	171	185	---	---	---
31	250	192	231	---	---	---	207	171	186	---	---	---
MONTH	---	---	---	232	121	---	228	110	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	179	165	173	---	---	---	201	163	183
2	---	---	---	209	163	184	---	---	---	216	170	184
3	---	---	---	201	157	182	---	---	---	204	165	182
4	---	---	---	168	132	154	---	---	---	---	---	---
5	---	---	---	207	167	---	---	---	---	226	174	198
6	196	168	181	---	---	---	---	---	---	208	171	---
7	195	109	167	---	---	---	---	---	---	217	171	---
8	122	83	96	---	---	---	---	---	---	193	170	---
9	135	117	124	---	---	---	169	147	160	205	170	184
10	150	126	139	---	---	---	199	148	176	190	168	179
11	176	139	163	---	---	---	190	176	---	208	175	---
12	182	157	172	---	---	---	203	161	171	217	172	194
13	180	121	164	---	---	---	211	163	190	210	173	190
14	160	129	142	---	---	---	223	174	190	245	220	234
15	173	124	144	---	---	---	207	187	---	245	182	212
16	182	128	155	---	---	---	193	182	---	249	131	176
17	184	142	164	208	191	---	188	162	176	---	---	---
18	190	137	172	209	185	197	200	172	186	---	---	---
19	196	169	181	208	181	193	197	171	183	---	---	---
20	200	180	190	183	169	175	195	171	186	---	---	---
21	230	152	210	189	173	182	197	179	187	---	---	---
22	208	152	173	192	176	192	213	166	189	---	---	---
23	215	157	178	216	170	183	217	174	189	---	---	---
24	180	149	163	207	168	180	205	168	188	---	---	---
25	182	157	167	219	170	185	228	157	194	---	---	---
26	175	157	169	191	161	172	203	166	187	---	---	---
27	192	159	171	197	182	---	206	177	190	234	211	---
28	181	168	174	201	180	---	213	181	192	218	199	210
29	---	---	---	---	---	---	201	189	195	238	203	219
30	---	---	---	---	---	---	211	182	195	226	194	216
31	---	---	---	---	---	---	---	---	---	189	176	179
MONTH	230	83	163	---	---	---	---	---	---	---	---	---

01408000 MANASQUAN RIVER AT SQUANKUM, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	216	189	195	263	226	244	216	194	204	---	---	---
2	224	193	209	---	---	---	222	173	194	---	---	---
3	227	197	211	---	---	---	223	199	206	---	---	---
4	246	202	217	---	---	---	253	233	241	---	---	---
5	237	216	229	---	---	---	233	184	220	---	---	---
6	240	222	231	---	---	---	---	---	---	---	---	---
7	249	217	226	223	213	---	---	---	---	224	213	---
8	256	221	231	249	225	241	---	---	---	235	214	222
9	274	239	249	268	241	254	---	---	---	234	221	---
10	285	238	253	258	241	250	---	---	---	---	---	---
11	274	238	254	282	246	257	---	---	---	---	---	---
12	269	235	251	264	244	256	---	---	---	---	---	---
13	252	228	241	249	224	231	292	245	---	---	---	---
14	232	196	218	270	233	251	295	250	270	---	---	---
15	229	191	201	272	250	258	300	258	276	---	---	---
16	233	206	214	277	254	266	274	247	260	---	---	---
17	260	205	219	281	256	266	272	244	258	---	---	---
18	261	220	233	287	251	270	303	258	276	---	---	---
19	253	226	235	261	193	240	314	266	289	---	---	---
20	235	217	227	233	189	206	301	244	278	194	189	---
21	235	212	223	256	220	235	270	234	249	194	160	181
22	245	220	229	273	238	256	419	270	318	211	173	191
23	261	224	238	268	242	256	296	266	281	235	205	219
24	254	225	237	279	244	258	356	273	294	234	208	216
25	256	237	246	266	233	249	313	272	294	225	210	217
26	269	242	257	269	197	227	319	273	299	222	212	214
27	258	234	246	235	212	221	436	102	284	235	202	210
28	254	222	237	273	233	253	---	---	---	234	207	217
29	250	225	236	273	242	257	---	---	---	233	208	219
30	268	225	252	250	179	228	---	---	---	240	216	225
31	---	---	---	224	168	196	---	---	---	---	---	---
MONTH	285	189	232	287	168	245	---	---	---	---	---	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	3.5	4.4	---	---	---	9.3	8.1	9.0	10.4	9.9	10.1
2	5.7	3.7	5.0	---	---	---	8.6	7.6	8.2	10.5	9.8	10.2
3	5.2	3.7	4.3	6.2	5.9	---	8.4	7.5	8.1	10.5	9.6	10.0
4	4.0	3.4	3.8	6.0	5.8	---	---	---	---	10.5	9.2	10.0
5	4.1	3.5	3.8	3.7	3.2	3.5	7.5	7.3	---	9.5	9.0	9.2
6	---	---	---	4.0	3.4	3.6	---	---	---	10.1	9.6	10.0
7	6.4	4.2	5.6	3.6	2.0	2.9	8.5	8.1	---	11.4	10.4	10.8
8	5.8	4.6	5.3	2.7	2.1	2.4	9.5	8.6	9.1	12.0	10.7	11.3
9	5.8	5.2	5.4	2.2	1.9	2.1	9.2	8.1	8.5	11.7	10.3	---
10	6.2	5.3	5.7	6.9	1.9	5.5	9.5	9.2	---	12.6	11.5	---
11	6.2	5.5	5.9	6.7	5.4	6.1	9.7	9.1	9.4	---	---	---
12	6.4	5.2	5.9	---	---	---	9.4	8.5	9.0	12.5	11.8	---
13	6.5	5.3	5.8	---	---	---	9.1	8.9	9.0	---	---	---
14	5.7	4.7	5.3	---	---	---	9.8	9.5	9.7	13.8	10.5	---
15	5.1	4.4	4.8	8.9	8.4	---	10.3	9.7	10.1	10.8	9.6	---
16	5.1	4.8	5.0	9.3	8.9	9.1	10.1	9.0	9.8	---	---	---
17	6.2	5.5	6.0	9.1	8.7	8.9	9.3	6.6	7.4	10.6	9.9	---
18	6.8	5.7	6.4	9.4	8.2	9.0	8.2	7.7	7.9	10.8	9.9	10.5
19	6.2	5.8	6.0	8.9	6.9	7.9	8.3	7.2	7.8	11.3	10.2	10.7
20	6.9	6.5	4.8	7.8	6.6	---	8.1	6.6	---	10.3	9.9	---
21	7.4	4.2	5.8	6.9	6.1	---	8.1	7.0	7.4	---	---	---
22	---	---	---	8.0	6.9	---	7.9	7.1	7.4	---	---	---
23	---	---	---	7.3	7.0	---	8.3	6.7	7.7	---	---	---
24	5.6	4.6	5.1	8.1	7.7	7.9	8.7	7.7	8.1	---	---	---
25	5.4	4.5	5.1	8.7	7.8	---	9.1	8.3	8.7	---	---	---
26	5.2	4.6	5.1	7.5	6.6	7.1	9.3	8.8	9.1	11.1	10.8	---
27	6.1	5.3	5.8	7.6	6.4	6.9	9.9	9.5	9.7	11.1	10.6	10.9
28	6.1	4.6	5.4	7.9	7.4	7.7	11.6	9.8	10.5	10.8	9.4	10.2
29	---	---	---	8.5	8.1	8.3	10.7	9.8	10.3	9.5	9.0	---
30	---	---	---	9.0	8.4	8.6	11.0	10.5	10.7	---	---	---
31	---	---	---	---	---	---	11.0	9.9	10.7	---	---	---
MONTH	7.4	3.4	5.3	9.4	1.9	---	11.6	6.6	8.9	---	---	---

01408000 MANASQUAN RIVER AT SQUANKUM, N. J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	9.3	8.5	9.0	8.6	7.5	8.0
2	---	---	---	10.3	9.3	---	---	---	---	8.2	7.2	---
3	---	---	---	10.6	10.3	10.5	---	---	---	8.5	7.9	---
4	---	---	---	10.7	10.3	10.5	---	---	---	---	---	---
5	11.0	9.9	---	9.9	8.6	9.4	---	---	---	7.9	6.2	7.1
6	11.4	11.0	11.2	---	---	---	---	---	---	8.5	8.1	---
7	12.1	10.7	11.2	---	---	---	---	---	---	9.3	8.0	---
8	12.1	10.7	11.4	---	---	---	11.0	10.7	---	8.5	8.2	---
9	11.5	11.1	11.2	---	---	---	11.6	9.9	10.9	---	---	---
10	11.8	11.5	11.6	---	---	---	10.7	9.6	10.1	---	---	---
11	11.7	10.6	11.2	---	---	---	11.4	10.5	10.9	---	---	---
12	10.6	9.3	9.9	---	---	---	11.2	10.6	10.9	---	---	---
13	9.1	7.6	---	---	---	---	10.8	9.8	10.4	---	---	---
14	9.3	7.8	8.7	---	---	---	10.3	9.8	10.0	---	---	---
15	9.3	8.6	9.0	---	---	---	11.2	10.4	10.9	---	---	---
16	8.9	7.7	---	---	---	---	10.7	9.5	10.2	---	---	---
17	8.4	7.3	---	9.9	9.4	---	10.6	9.4	9.7	---	---	---
18	---	---	---	10.8	10.0	10.4	9.9	9.0	9.6	---	---	---
19	---	---	---	10.6	10.1	10.4	9.5	8.6	9.2	---	---	---
20	---	---	---	10.4	9.7	10.2	8.6	7.0	---	---	---	---
21	---	---	---	11.1	10.6	10.8	8.0	6.8	---	---	---	---
22	---	---	---	11.7	10.9	11.3	---	---	---	---	---	---
23	---	---	---	11.6	11.1	11.4	8.9	7.8	---	---	---	---
24	---	---	---	12.0	11.0	11.6	---	---	---	---	---	---
25	---	---	---	12.3	11.1	11.7	---	---	---	---	---	---
26	---	---	---	11.5	11.0	11.2	---	---	---	---	---	---
27	---	---	---	10.7	8.8	10.0	---	---	---	7.2	7.0	---
28	---	---	---	9.2	8.8	---	9.4	8.5	---	7.8	7.1	7.6
29	---	---	---	---	---	---	9.0	7.8	8.3	7.5	6.4	7.1
30	---	---	---	9.2	8.7	---	8.6	7.2	8.0	7.0	6.2	6.6
31	---	---	---	9.1	8.6	---	---	---	---	7.2	6.5	6.8
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.4	6.7	5.4	3.0	4.0	5.7	4.9	5.2	---	---	---
2	7.2	6.0	6.5	---	---	---	4.9	3.9	4.4	---	---	---
3	6.7	5.6	6.2	---	---	---	5.6	4.6	5.1	---	---	---
4	6.3	5.6	6.0	---	---	---	5.1	4.5	4.8	---	---	---
5	6.3	5.7	6.0	---	---	---	5.7	5.1	---	---	---	---
6	6.4	5.0	5.6	---	---	---	---	---	---	---	---	---
7	6.2	4.5	5.2	5.3	3.8	---	---	---	---	5.8	5.0	---
8	4.9	3.9	4.4	5.4	4.2	4.7	---	---	---	5.3	4.2	4.8
9	5.1	4.2	4.6	5.0	4.0	4.5	---	---	---	4.2	4.0	---
10	5.9	5.0	5.5	5.3	3.9	4.9	---	---	---	---	---	---
11	6.1	5.3	5.8	5.2	4.1	4.7	---	---	---	---	---	---
12	6.1	5.0	5.8	5.5	4.1	4.9	---	---	---	---	---	---
13	5.7	4.9	5.5	5.8	4.6	5.1	6.2	5.4	---	---	---	---
14	5.5	4.7	5.2	5.5	4.2	4.9	6.2	5.2	5.7	---	---	---
15	6.1	5.7	6.0	6.1	4.9	5.2	5.5	4.5	5.0	---	---	---
16	6.5	5.2	6.0	5.6	4.4	4.9	5.3	4.5	4.9	---	---	---
17	6.1	4.7	5.6	4.9	4.0	4.4	5.1	4.2	4.7	---	---	---
18	5.5	4.5	5.0	5.0	3.7	4.3	5.0	4.0	4.5	---	---	---
19	5.3	4.3	4.9	4.6	3.9	4.2	4.1	3.7	3.9	---	---	---
20	5.2	4.5	4.9	4.4	3.3	3.9	4.0	2.7	3.3	6.7	5.9	---
21	5.0	4.2	4.7	5.6	3.2	4.5	3.5	2.5	3.1	6.6	4.6	5.8
22	4.8	4.1	4.6	6.3	5.1	5.6	3.0	2.6	2.8	6.2	5.5	5.9
23	5.0	4.0	4.6	6.5	4.7	5.4	3.4	2.8	3.1	6.0	5.3	5.6
24	5.1	4.0	4.6	5.9	4.4	5.1	4.3	3.6	4.0	6.6	5.6	6.1
25	4.9	3.8	4.4	5.8	4.1	4.8	4.3	3.5	3.9	6.9	6.0	6.5
26	5.1	4.0	4.4	5.9	3.8	4.7	3.4	2.5	3.0	6.8	6.0	6.5
27	5.7	4.0	4.7	6.2	4.6	5.3	4.1	2.1	2.9	6.7	5.7	6.5
28	5.6	4.5	4.9	6.7	4.9	5.6	---	---	---	6.4	5.5	6.1
29	5.4	4.0	4.6	6.0	4.8	5.2	---	---	---	6.3	5.6	6.1
30	6.2	4.2	5.3	6.1	4.6	5.1	---	---	---	6.2	5.5	6.0
31	---	---	---	5.2	4.4	4.8	---	---	---	---	---	---
MONTH	7.2	3.8	5.3	6.7	3.0	4.8	---	---	---	---	---	---

01408000 MANASQUAN RIVER AT SQUANKUM, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.5	13.0	---	13.5	11.5	12.5	8.5	5.5	---	---	---	---
2	14.0	12.5	---	13.0	13.0	13.0	10.5	8.0	9.5	2.0	0.5	---
3	15.5	14.0	---	---	---	---	9.0	7.0	8.0	3.5	1.5	---
4	---	---	---	13.0	11.5	12.0	11.0	8.0	---	4.0	2.0	---
5	---	---	---	12.0	10.0	11.0	---	---	---	4.0	2.5	---
6	---	---	---	10.5	8.5	9.5	5.5	3.5	---	3.0	1.5	2.0
7	15.5	13.0	14.0	11.0	8.0	9.0	3.5	0.0	2.0	2.5	1.0	---
8	15.5	14.0	15.0	11.0	8.0	9.5	2.5	0.0	2.0	1.0	0.5	---
9	16.5	14.5	15.5	10.5	8.5	9.5	5.5	3.0	4.0	---	---	---
10	17.0	15.0	15.5	12.5	9.5	11.5	7.5	5.5	6.5	---	---	---
11	17.0	14.0	15.5	14.5	12.5	13.5	7.0	5.5	6.0	---	---	---
12	18.0	15.0	16.0	15.5	14.0	14.5	7.0	6.5	6.5	5.5	4.5	---
13	16.5	15.5	16.0	14.0	12.0	13.0	6.5	5.5	6.0	3.5	3.0	---
14	18.0	16.5	17.0	---	---	---	6.0	5.0	5.5	4.5	4.0	---
15	18.5	17.5	18.0	---	---	---	5.5	4.5	5.0	---	---	---
16	18.5	14.0	16.5	---	---	---	6.5	4.5	5.5	---	---	---
17	13.5	9.5	11.5	8.5	7.0	7.5	7.5	6.5	6.5	---	---	---
18	11.0	9.0	10.0	9.0	6.0	7.5	6.5	5.5	6.0	---	---	---
19	11.5	9.5	10.5	11.5	8.5	9.5	---	---	---	---	---	---
20	11.0	9.0	10.0	11.0	9.5	---	7.5	6.0	7.0	---	---	---
21	14.0	11.0	12.5	---	---	---	5.5	4.5	---	---	---	---
22	16.5	14.0	15.0	9.5	8.0	---	---	---	---	---	---	---
23	17.0	16.5	16.5	9.5	8.5	---	---	---	---	---	---	---
24	16.5	15.0	16.0	6.0	4.0	5.0	---	---	---	---	---	---
25	16.0	14.5	15.0	4.5	3.5	---	---	---	---	---	---	---
26	15.0	13.5	14.0	5.5	5.5	---	1.5	0.0	---	---	---	---
27	13.5	11.0	12.5	8.5	6.0	---	2.5	0.0	---	---	---	---
28	11.0	9.5	10.5	10.0	7.5	8.5	3.0	1.0	2.0	---	---	---
29	10.0	8.0	9.0	9.0	8.5	---	---	---	---	---	---	---
30	11.0	8.5	10.0	10.5	7.5	9.5	---	---	---	---	---	---
31	12.0	10.0	11.5	---	---	---	2.5	1.0	---	---	---	---
MONTH	18.5	8.0	14.0	15.5	3.5	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.5	7.0	---	9.5	6.5	8.0	13.5	10.0	---
2	---	---	---	6.5	5.0	6.0	---	---	---	13.5	11.5	---
3	---	---	---	5.0	4.5	---	---	---	---	12.5	12.0	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	15.5	11.0	13.0
6	---	---	---	6.0	5.0	---	---	---	---	14.0	13.5	14.0
7	---	---	---	---	---	---	---	---	---	15.0	13.0	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	10.5	6.5	8.5	---	---	---
10	---	---	---	---	---	---	12.0	9.5	11.0	14.5	11.5	---
11	2.5	1.0	---	---	---	---	---	---	---	17.0	12.5	15.5
12	5.5	4.5	---	---	---	---	---	---	---	16.5	14.5	15.5
13	5.0	3.5	---	---	---	---	---	---	---	16.0	15.0	---
14	---	---	---	---	---	---	---	---	---	17.0	14.0	15.5
15	---	---	---	---	---	---	9.0	8.0	---	15.5	13.5	14.5
16	---	---	---	---	---	---	8.5	7.5	8.0	---	---	---
17	---	---	---	9.0	7.5	---	8.5	7.5	---	---	---	---
18	---	---	---	8.0	6.0	7.0	13.0	9.5	11.5	---	---	---
19	---	---	---	7.0	6.0	6.5	14.5	10.5	12.0	---	---	---
20	---	---	---	6.5	4.5	5.5	15.0	11.0	13.0	---	---	---
21	---	---	---	6.0	5.0	5.5	15.0	13.0	---	---	---	---
22	---	---	---	8.0	5.0	7.0	---	---	---	---	---	---
23	5.5	4.5	---	9.0	5.0	7.0	14.0	9.0	---	---	---	---
24	---	---	---	6.0	5.0	5.5	---	---	---	---	---	---
25	---	---	---	7.0	4.5	5.5	12.5	10.5	---	---	---	---
26	5.5	4.5	---	6.0	5.5	---	---	---	---	---	---	---
27	8.5	6.5	7.5	8.0	5.0	---	---	---	---	15.5	15.0	---
28	8.5	7.0	7.5	8.5	5.5	---	---	---	---	15.0	13.5	14.5
29	---	---	---	---	---	---	10.5	9.0	10.0	16.0	14.0	15.0
30	---	---	---	8.5	7.0	---	11.5	9.5	10.5	15.0	14.0	14.5
31	---	---	---	10.0	7.0	---	---	---	---	14.5	14.0	14.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01408000 MANASQUAN RIVER AT SQUANKUM, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	14.0	15.0	24.0	20.0	21.5	22.5	21.0	21.5	---	---	---
2	17.0	14.5	16.0	---	---	---	24.0	20.5	22.5	---	---	---
3	18.0	15.5	17.0	---	---	---	23.0	20.5	22.0	---	---	---
4	19.5	17.5	18.5	---	---	---	22.0	20.5	21.0	---	---	---
5	19.5	18.0	19.0	---	---	---	20.0	19.0	---	---	---	---
6	18.5	17.0	17.5	---	---	---	---	---	---	---	---	---
7	20.0	17.0	18.5	23.5	20.5	---	---	---	---	20.5	20.5	---
8	21.5	19.0	20.5	23.5	19.5	21.5	---	---	---	20.5	19.0	20.0
9	21.0	19.0	20.0	23.0	20.0	21.5	---	---	---	20.5	19.0	---
10	19.5	17.0	18.5	23.0	20.5	21.5	---	---	---	---	---	---
11	18.5	16.5	17.5	21.5	18.0	19.5	---	---	---	---	---	---
12	19.0	16.5	18.0	20.0	16.5	18.5	---	---	---	---	---	---
13	20.0	18.0	19.0	20.0	16.5	18.5	20.0	19.0	---	---	---	---
14	19.0	17.5	18.5	21.5	18.5	20.0	20.0	17.0	18.5	---	---	---
15	17.5	15.5	16.0	21.0	18.0	19.5	21.0	18.5	19.5	---	---	---
16	17.0	15.0	16.0	20.0	18.0	19.0	20.5	19.0	20.0	---	---	---
17	18.5	15.5	17.0	21.5	19.0	20.0	20.5	18.0	19.5	---	---	---
18	19.0	15.5	17.5	21.5	19.0	20.5	21.0	18.0	19.5	---	---	---
19	19.5	16.0	18.0	20.0	18.5	19.5	20.0	19.0	19.5	---	---	---
20	20.0	17.5	19.0	21.0	19.0	20.0	21.5	19.0	20.0	18.5	18.5	---
21	21.0	18.5	19.5	20.0	18.0	19.0	22.5	20.0	21.0	19.5	18.5	19.0
22	21.5	19.0	20.0	20.5	17.5	19.0	21.5	20.0	21.0	18.5	17.0	17.5
23	21.0	19.0	20.0	20.5	18.0	19.5	21.0	19.5	20.5	17.0	17.0	17.0
24	21.5	19.0	20.0	20.5	18.5	19.5	19.5	16.5	18.0	17.0	16.0	16.5
25	22.0	19.5	20.5	21.5	19.0	20.0	18.0	14.5	16.0	15.5	14.5	15.0
26	22.0	20.0	21.0	21.5	20.0	20.5	18.5	16.5	17.5	14.5	14.0	14.5
27	22.5	19.0	21.0	22.0	20.0	21.0	20.5	18.0	19.5	15.0	14.5	15.0
28	21.0	19.5	20.5	21.5	19.0	20.5	---	---	---	16.0	15.0	15.5
29	19.5	18.5	19.0	22.0	19.5	20.5	---	---	---	17.0	16.0	16.5
30	22.0	18.0	20.0	21.5	20.0	21.0	---	---	---	17.0	16.5	16.5
31	---	---	---	22.5	20.5	21.5	---	---	---	---	---	---
MONTH	22.5	14.0	18.5	24.0	16.5	20.0	---	---	---	---	---	---

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.4	7.1	7.3	---	---	---	---	---	---	6.7	6.6	6.6
2	7.3	7.1	7.2	---	---	---	7.1	6.7	6.9	6.7	6.2	6.5
3	7.3	6.8	7.2	---	---	---	7.1	6.7	6.9	6.7	6.2	6.6
4	7.3	7.0	7.1	---	---	---	7.0	6.7	6.9	6.8	5.8	6.4
5	7.3	7.0	7.2	---	---	---	7.0	6.9	7.0	5.9	5.2	5.6
6	7.4	7.0	7.3	---	---	---	7.0	6.9	6.9	5.9	5.4	5.6
7	7.6	7.0	7.3	---	---	---	7.0	6.8	6.9	6.2	5.8	6.0
8	7.5	7.1	7.3	---	---	---	7.1	6.8	6.9	6.3	6.0	6.2
9	7.5	7.1	7.2	---	---	---	6.7	6.4	6.6	6.3	6.2	6.3
10	7.4	6.9	7.2	7.1	7.0	---	7.2	6.6	---	6.4	6.0	6.3
11	7.2	7.0	7.1	7.1	6.9	7.0	---	---	---	6.4	5.9	6.3
12	7.2	6.9	7.1	7.1	6.9	7.0	---	---	---	6.6	6.1	6.4
13	7.2	7.0	7.1	7.1	6.9	7.0	7.2	6.9	7.0	6.6	6.3	6.5
14	7.1	6.8	6.9	7.1	6.7	7.0	7.0	6.6	6.8	6.3	6.2	---
15	7.1	6.8	6.9	7.1	7.0	7.0	6.7	6.5	6.7	6.8	6.4	6.5
16	7.2	6.7	6.9	7.0	6.6	6.8	6.7	6.5	6.6	6.7	6.4	6.6
17	7.3	7.1	7.2	---	---	---	6.5	5.3	5.8	6.7	6.3	6.6
18	7.3	6.9	7.1	---	---	---	6.0	5.4	5.7	6.8	6.2	6.6
19	7.3	7.0	7.1	---	---	---	6.1	5.8	6.0	6.8	6.5	6.7
20	7.4	7.2	---	---	---	---	6.4	6.1	6.2	6.9	6.5	6.7
21	---	---	---	---	---	---	6.5	6.4	6.5	6.8	6.6	6.7
22	---	---	---	---	---	---	6.6	6.2	6.5	6.7	6.4	6.6
23	---	---	---	---	---	---	6.4	6.1	6.2	6.7	6.4	6.6
24	---	---	---	---	---	---	6.3	5.9	6.1	6.7	6.4	6.5
25	---	---	---	---	---	---	6.3	6.0	6.1	6.6	6.4	6.5
26	---	---	---	---	---	---	6.4	6.2	6.3	6.5	6.2	6.3
27	---	---	---	---	---	---	6.5	6.4	6.5	6.6	6.2	6.4
28	---	---	---	---	---	---	6.6	6.3	6.5	6.7	6.4	6.6
29	---	---	---	---	---	---	6.7	6.1	6.4	6.8	6.5	6.7
30	---	---	---	---	---	---	6.8	6.3	6.6	6.7	6.3	6.5
31	---	---	---	---	---	---	6.8	6.5	6.6	6.9	6.6	6.7
MONTH	---	---	---	---	---	---	7.2	5.3	6.5	6.9	5.2	6.4

01408000 MANASQUAN RIVER AT SQUANKUM, N. J.--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.5	6.8	6.4	5.9	6.2	6.8	6.5	6.7	6.9	6.8	6.9
2	6.9	6.6	6.8	6.5	6.4	6.5	6.7	6.4	---	6.9	6.8	6.9
3	7.0	6.5	6.8	6.5	6.3	6.5	---	---	---	7.1	6.8	6.9
4	6.8	6.7	6.7	6.3	5.8	6.0	---	---	---	7.0	6.9	7.0
5	6.9	6.3	6.7	6.2	6.0	6.1	---	---	---	7.1	6.9	7.0
6	6.7	6.0	6.4	6.3	5.9	6.1	---	---	---	6.9	6.8	6.9
7	6.7	6.3	6.7	---	---	---	---	---	---	6.9	6.7	6.8
8	6.2	5.6	5.8	---	---	---	6.5	6.1	---	6.9	6.7	6.9
9	6.5	5.8	5.9	---	---	---	6.5	6.0	6.3	6.7	6.6	6.7
10	6.4	6.1	6.3	---	---	---	6.6	6.3	6.5	6.8	6.6	6.7
11	6.6	6.2	6.4	---	---	---	6.7	6.4	6.6	6.8	6.7	6.8
12	6.6	6.1	6.5	---	---	---	6.8	6.5	6.7	6.9	6.7	6.8
13	6.9	6.3	6.6	---	---	---	6.9	6.5	6.7	6.8	6.7	6.8
14	6.4	6.1	6.2	---	---	---	6.9	6.7	6.8	6.9	6.6	6.8
15	6.6	6.4	6.5	---	---	---	7.0	6.6	6.8	7.0	6.8	6.9
16	6.7	6.3	6.6	---	---	---	6.9	6.7	6.8	6.9	6.5	---
17	6.8	6.4	6.7	6.9	6.7	---	6.9	6.6	6.8	---	---	---
18	6.7	6.3	6.6	6.9	6.7	6.8	6.9	6.7	6.8	---	---	---
19	6.7	6.4	6.6	7.8	6.8	7.0	7.0	6.6	6.8	---	---	---
20	6.7	6.3	6.6	6.6	6.2	6.4	6.9	6.7	6.8	---	---	---
21	6.6	6.1	6.4	6.7	6.4	6.6	7.0	6.7	6.8	---	---	---
22	6.6	6.5	6.6	6.7	6.4	6.6	7.0	6.9	6.9	---	---	---
23	6.5	6.1	6.3	6.7	6.4	6.6	7.0	6.9	7.0	---	---	---
24	6.3	6.2	6.3	6.7	6.5	6.6	7.1	6.9	7.0	---	---	---
25	6.5	6.2	6.3	6.8	6.4	6.7	7.1	7.0	7.0	---	---	---
26	6.6	6.3	6.4	6.8	6.7	6.7	7.1	6.9	7.0	---	---	---
27	6.5	5.5	6.1	6.8	6.5	6.7	7.1	7.0	7.0	---	---	---
28	6.2	5.9	6.0	6.9	6.5	6.7	7.1	6.8	7.0	7.0	6.8	6.9
29	---	---	---	6.8	6.6	6.7	6.8	6.6	6.7	7.0	6.9	6.9
30	---	---	---	6.9	6.7	6.8	6.9	6.7	6.8	7.2	6.9	7.1
31	---	---	---	6.8	6.5	6.7	---	---	---	7.0	6.8	6.9
MONTH	7.0	5.5	6.5	---	---	---	7.1	6.0	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.8	6.7	7.0	6.7	6.8	6.5	6.3	6.4	---	---	---
2	7.0	6.6	6.8	---	---	---	6.6	6.2	6.4	---	---	---
3	7.4	6.6	6.9	---	---	---	6.6	6.5	6.6	---	---	---
4	7.2	6.5	6.8	---	---	---	6.7	6.6	6.7	---	---	---
5	6.9	6.7	6.8	---	---	---	6.7	6.4	6.6	---	---	---
6	6.9	6.7	6.8	---	---	---	---	---	---	---	---	---
7	7.2	6.5	6.8	7.0	6.6	---	---	---	---	7.6	6.5	---
8	6.9	6.5	6.7	7.0	6.6	6.9	---	---	---	8.3	6.6	7.2
9	6.9	6.6	6.7	7.1	6.8	7.0	---	---	---	8.1	6.7	---
10	6.9	6.6	6.8	7.2	6.8	7.0	---	---	---	---	---	---
11	7.0	6.8	6.9	7.2	7.0	7.0	---	---	---	---	---	---
12	7.0	6.7	6.9	7.2	6.9	7.0	---	---	---	---	---	---
13	7.2	6.7	6.9	7.1	6.9	7.0	7.1	6.8	---	---	---	---
14	7.1	6.6	6.9	7.1	6.9	7.0	7.3	6.8	7.1	---	---	---
15	6.8	6.7	6.7	7.1	6.8	7.0	7.7	6.8	7.2	---	---	---
16	6.9	6.7	6.8	7.2	6.9	7.1	7.1	6.9	7.0	---	---	---
17	6.9	6.6	6.8	7.3	6.9	7.1	7.3	6.8	7.1	---	---	---
18	6.9	6.6	6.8	7.2	6.9	7.1	7.2	6.7	7.0	---	---	---
19	6.9	6.6	6.8	7.4	7.0	7.1	7.4	6.9	7.2	---	---	---
20	6.9	6.6	6.7	7.1	6.8	6.9	7.6	6.8	7.2	7.2	6.2	---
21	6.9	6.5	6.7	7.0	6.9	7.0	7.5	6.8	7.1	7.4	5.7	6.4
22	6.8	6.5	6.6	6.9	6.7	6.9	7.3	6.9	7.1	6.5	6.1	6.3
23	6.8	6.6	6.7	6.8	6.7	6.8	7.5	6.8	7.1	6.8	6.3	6.5
24	6.8	6.6	6.7	6.8	6.6	6.7	7.1	6.9	7.0	7.1	6.7	7.0
25	6.8	6.6	6.8	6.6	6.5	6.6	7.1	6.8	7.0	7.2	6.9	7.1
26	6.8	6.7	6.8	6.5	6.3	6.4	7.6	7.0	7.1	7.2	7.0	7.1
27	6.9	6.7	6.8	6.4	6.2	6.3	9.2	7.2	8.2	7.1	6.9	7.0
28	6.8	6.7	6.8	6.3	6.2	6.3	---	---	---	7.3	6.7	7.0
29	6.8	6.6	6.7	6.2	5.8	6.0	---	---	---	7.3	6.4	6.9
30	6.9	6.6	6.7	6.4	6.2	6.3	---	---	---	7.2	6.4	6.8
31	---	---	---	6.4	6.1	6.3	---	---	---	---	---	---
MONTH	7.4	6.5	6.8	7.4	5.8	6.8	---	---	---	---	---	---

01408020 MINGAMAHONE BROOK AT SQUANKUM, N. J.

LOCATION.--Lat 40°09'56", long 74°09'01", Monmouth County, at partial-record gaging station at bridge on N.J. Route 524 at Squankum, 0.2 mile east of N.J. Route 547, and 0.5 mile upstream from mouth.
DRAINAGE AREA.--10.7 sq mi.
PERIOD OF RECORD.--Chemical Analyses: October 1970 to September 1971.
REMARKS.--Miscellaneous sample of chemical data published for 1970 water year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
JAN.								
29...	--	--	--	13	1.7	--	6.0	--
FEB.								
26...	--	--	--	8.9	1.6	--	9.0	--
MAY								
07...	9.9	--	39	12	1.6	5.0	--	2.1
JUNE								
25...	--	--	--	18	1.7	--	5.8	--
AUG.								
11...	12	560	32	20	2.2	5.8	--	2.9
31...	12	420	50	10	1.8	5.2	--	4.5

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
JAN.								
29...	16	0	13	25	9.4	--	.4	.03
FEB.								
26...	9	0	7	26	9.2	--	.9	.03
MAY								
07...	17	0	14	23	8.5	.1	.1	.03
JUNE								
25...	40	0	33	19	7.8	--	.4	.05
AUG.								
11...	55	0	45	22	11	.2	1.0	.13
31...	11	0	9	24	9.2	.3	.1	.04

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN.									
29...	--	--	40	27	127	6.9	3	1.2	--
FEB.									
18...	--	--	--	--	--	--	--	1.0	--
26...	--	--	29	21	104	6.5	15	.3	--
MAR.									
30...	--	--	--	--	--	--	--	.4	--
APR.									
09...	--	--	--	--	--	--	--	.6	--
MAY									
07...	71	71	37	23	111	6.4	15	.9	7.0
27...	--	--	--	--	--	--	--	.8	--
JUNE									
25...	--	--	52	19	149	7.0	25	.9	--
JULY									
23...	--	--	--	--	--	--	--	.9	--
AUG.									
11...	122	105	59	14	155	7.7	120	1.5	8.5
31...	80	73	33	24	106	6.7	30	1.2	7.5

01408020 MINGAMAHONE BROOK AT SQUANKUM, N. J.--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 06...	1230	13.4	154	7.5	12.4	--
JAN. 29...	1130	.3	130	6.0	13.2	300
FEB. 18...	1145	3.3	110	7.0	13.6	12
26...	1245	3.9	112	6.2	13.2	80
MAR. 30...	1300	8.1	120	7.0	11.6	92
APR. 09...	1130	8.5	100	5.3	10.7	36
MAY 07...	1045	12.6	120	7.3	11.2	148
27...	1200	14.2	120	7.0	9.3	860
JUNE 25...	1145	21.2	155	6.2	8.9	833
JULY 23...	1100	20.1	140	8.2	9.4	1150
AUG. 11...	1145	22.8	160	--	10.2	10000
31...	1415	19.7	100	--	8.6	5000

01408027 SQUANKUM BROOK AT LOWER SQUANKUM, N. J.

LOCATION.--Lat 40°09'02", long 74°09'14", Monmouth County, at bridge on N.J. Route 549 at Squankum and 0.8 mile above mouth.

DRAINAGE AREA.--2.60 sq mi.

PERIOD OF RECORD.--Chemical analyses: January to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
JAN. 29...	--	--	--	12	2.8	--	15	--
FEB. 25...	--	--	--	8.9	2.5	--	8.3	--
MAY 07...	4.5	--	18	10	3.1	6.0	--	4.7
AUG. 11...	7.7	500	30	12	3.5	6.1	--	4.8
SEP. 01...	6.4	900	100	9.3	2.5	5.7	--	4.1

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
JAN. 29...	13	0	11	35	13	--	12	.01
FEB. 25...	6	0	5	24	9.9	--	8.0	.03
MAY 07...	11	0	9	27	13	.2	5.2	.03
AUG. 11...	18	0	15	19	12	.1	12	.10
SEP. 01...	6	0	5	21	11	.4	8.0	.06

01408027 SQUANKUM BROOK AT LOWER SQUANKUM, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN. 29...	--	--	42	31	157	6.4	1	.4	--
FEB. 19...	--	--	--	--	--	--	--	1.4	--
25...	--	--	33	28	121	6.1	35	1.0	--
MAR. 09...	--	--	--	--	--	--	--	1.9	--
30...	--	--	--	--	--	--	--	2.0	--
APR. 09...	--	--	--	--	--	--	--	1.2	--
MAY 07...	87	79	38	29	125	7.1	50	1.6	9.5
27...	--	--	--	--	--	--	--	1.2	--
AUG. 11...	108	86	45	30	145	7.1	50	2.0	10
SEP. 01...	124	71	34	29	117	6.4	80	2.3	15

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
JAN. 29...	1230	.7	152	--	13.4	0
FEB. 19...	1400	4.8	130	6.9	11.8	28
25...	1230	4.8	125	5.8	11.2	520
MAR. 09...	1245	4.7	120	--	12.2	1620
30...	1215	7.0	145	--	11.8	63
APR. 09...	1115	9.7	110	6.7	10.7	20
MAY 07...	1030	13.5	145	7.1	10.2	168
27...	1315	15.0	130	6.2	8.3	540
AUG. 11...	1045	21.2	140	--	7.8	4800
SEP. 01...	0930	16.7	105	--	7.0	7000

01408030 MANASQUAN RIVER AT ALLENWOOD, N. J.

LOCATION.--Lat 40°08'35", long 74°07'03", Monmouth County, at bridge on Hospital Road, 0.7 mile above Garden State Parkway and 1.5 miles downstream from Mill Run.
DRAINAGE AREA.--63.9 sq mi.
PERIOD OF RECORD.--Chemical Analyses: January 1970 to September 1971.
REMARKS.--Miscellaneous sample of chemical data published for 1970 water year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
JAN. 29...	--	--	--	15	2.4	--	15	--
FEB. 25...	--	--	--	12	2.4	--	12	--
MAY 07...	11	--	55	15	3.8	8.5	--	3.3
JUNE 25...	--	--	--	22	2.6	--	12	--
AUG. 11...	12	450	50	21	2.9	11	--	4.0
SEP. 01...	12	420	78	14	2.5	10	--	3.4
30...	--	--	--	15	3.0	--	14	--

01408030 MANASQUAN RIVER AT ALLENWOOD, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
JAN.								
29...	17	0	14	33	17	--	8.4	.19
FEB.								
25...	10	0	8	35	12	--	6.9	.19
MAY								
07...	25	0	21	36	12	.3	3.4	.45
JUNE								
25...	42	0	34	26	17	--	8.1	.17
AUG.								
11...	48	0	39	26	13	.2	10	.13
SEP.								
01...	14	0	11	33	14	.2	5.2	.14
30...	30	0	25	29	15	--	5.2	.33

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN.									
29...	--	--	48	34	188	6.4	2	2.8	--
FEB.									
19...	--	--	--	--	--	--	--	1.8	--
25...	--	--	40	32	148	6.7	6	3.9	--
MAR.									
09...	--	--	--	--	--	--	--	1.5	--
30...	--	--	--	--	--	--	--	1.0	--
APR.									
09...	--	--	--	--	--	--	--	1.2	--
MAY									
07...	108	106	53	33	158	6.7	30	2.7	11
JUNE									
03...	--	--	--	--	--	--	--	2.7	--
25...	--	--	66	31	211	7.3	9	2.5	--
JULY									
23...	--	--	--	--	--	--	--	1.5	--
AUG.									
11...	132	124	65	25	202	6.9	10	1.7	5.5
SEP.									
01...	99	102	46	34	165	7.1	28	2.6	6.5
30...	--	--	50	26	170	7.3	40	3.4	--

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
JAN.						
29...	1145	.1	190	6.4	12.6	16
FEB.						
19...	1300	5.6	170	7.4	11.6	280
25...	1145	4.9	160	7.0	11.4	700
MAR.						
09...	1115	3.7	155	6.9	12.0	331
30...	1115	7.1	175	--	10.9	1200
APR.						
09...	1030	8.4	145	7.2	10.3	1200
MAY						
07...	0945	12.2	175	6.5	9.1	450
JUNE						
03...	1115	16.0	180	6.9	7.9	6800
25...	1230	21.5	228	6.4	7.7	650
JULY						
23...	1000	18.9	220	7.8	7.6	1800
AUG.						
11...	1015	22.0	170	--	7.4	11000
SEP.						
01...	1015	17.0	150	--	7.6	6400
30...	1245	18.1	--	7.0	8.3	2750

01408033 MANASQUAN RIVER, AT SQUANKUM-ALLENWOOD ROAD, AT ALLENWOOD, N. J.

LOCATION.--Lat 40°08'12", long 74°06'30", Monmouth County, on Squankum-Allenwood Rd at Allenwood and about 1800 feet below Garden State Parkway.
DRAINAGE AREA.--65.0 sq mi.
PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
JAN. 29...	--	--	--	16	2.7	--	14	--
FEB. 25...	--	--	--	11	2.7	--	13	--
AUG. 11...	12	350	44	20	3.1	12	--	4.9

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
JAN. 29...	19	0	16	31	19	--	8.7	.18
FEB. 25...	8	0	7	33	15	--	6.4	.14
AUG. 11...	43	0	35	26	19	.1	7.6	.17

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN. 29...	--	--	51	36	188	6.4	3	2.6	--
FEB. 19...	--	--	--	--	--	--	--	1.8	--
25...	--	--	39	32	154	6.7	23	4.2	--
MAR. 09...	--	--	--	--	--	--	--	1.8	--
APR. 09...	--	--	--	--	--	--	--	1.5	--
JUNE 03...	--	--	--	--	--	--	--	2.5	--
JULY 23...	--	--	--	--	--	--	--	1.1	--
AUG. 11...	130	126	63	28	201	7.7	20	1.4	6.0

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 06...	1400	15.0	375	6.8	7.6	500
JAN. 29...	1200	.0	190	6.4	12.8	42
FEB. 19...	1230	5.2	180	7.7	11.8	352
25...	1115	4.6	170	6.9	11.2	740
MAR. 09...	1045	3.2	150	7.0	11.9	480
APR. 09...	1000	7.4	135	7.0	10.4	150
JUNE 03...	1100	17.2	200	6.8	8.2	2560
JULY 23...	0915	19.4	400	8.2	6.8	18000
AUG. 11...	0930	21.5	260	--	6.2	11000

01408155 METEDECONK RIVER AT LAURELTON, N. J.

LOCATION.--Lat 40°03'58", long 74°08'01", Ocean County, at bridge on N.J. Route 70, in Laurelton.
DRAINAGE AREA.--71.2 sq mi.
PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.
REMARKS.--Operated as part of the USGS-EPA Surveillance Network.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	NITRATE (NO3) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLOROPHYLL A (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TURBIDITY (JTU)	COLOR (PLATINUM-COBALT UNITS)
OCT. 13...	.77	3.3	--	--	.70	8.0	7.8	.04	19100	6.9	1	--
NOV. 17...	.24	3.2	--	--	.21	10	6.8	.02	212	6.2	4	--
DEC. 15...	.90	4.2	--	--	.28	5.0	1.4	.01	3630	6.8	13	--
JAN. 19...	1.7	6.6	--	--	.49	5.0	.7	.11	3500	6.9	5	--
FEB. 23...	2.1	5.5	--	--	.32	10	1.8	.02	98	6.5	8	--
MAR. 16...	.95	4.8	--	--	.30	6.5	2.1	.03	343	6.7	6	--
APR. 27...	.44	7.0	--	--	.45	6.0	3.9	.02	119	7.2	4	--
MAY 25...	3.0	2.5	--	--	.32	9.0	19	.02	17900	6.7	5	--
JUNE 29...	1.3	12	--	--	.62	17	49	.03	152	6.4	27	--
JULY 26...	.97	4.5	--	--	.60	13	23	.04	4260	6.9	5	--
AUG. 25...	4.2	2.1	4.1	.13	.64	12	19	.04	21100	6.8	8	25
SEP. 28...	.80	5.5	--	--	.32	10	2.0	.01	111	6.0	6	--

DATE	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
AUG. 25...	320	420	95	160	190	4060	139	0	24	1110	6190	14100

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 25...	13	1180	1070	10	16	2	.00	1	6	50	0	40

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTACHLOR (UG/L)	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)
AUG. 25...	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00

01408155 METEDECONK RIVER AT LAURELTON, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG. 25...	.00	.00	.00	.00	.00	.01	<17	.2	66	.7	52	.6
SEP. 28...	--	--	--	.00	.00	.00	--	--	--	--	--	--

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DEPTH (FT)	PER-CENT OF TOTAL DEPTH	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT. 13...	1300	2.5	50	19.5	22.0	--	7.2	5.4	2700	175
NOV. 17...	1300	3.0	50	8.9	10.0	220	6.6	8.8	460	33
DEC. 15...	1145	3.0	50	4.1	5.8	--	--	10.0	68	12
JAN. 19...	1200	3.0	50	.5	--	--	7.8	12.2	372	5
FEB. 23...	1515	4.0	50	5.8	7.0	110	6.3	10.4	544	192
MAR. 16...	1430	3.0	50	13.6	20.4	350	5.6	8.6	144	4
APR. 27...	1300	2.0	50	12.9	18.5	130	6.1	10.0	100	16
MAY 25...	1620	3.0	50	19.6	28.5	16300	6.3	7.4	362	148
JUNE 29...	1215	1.5	50	21.8	23.2	130	5.8	5.3	--	180
JULY 26...	1330	3.0	50	24.9	26.3	3600	6.8	4.8	11300	486
AUG. 25...	1315	2.5	50	23.8	26.0	--	7.0	4.8	16500	147
SEP. 28...	1300	3.0	50	17.2	20.1	100	6.8	5.6	5500	234

01408700 TOMS RIVER AT TOMS RIVER, N. J.

LOCATION.--Lat 39°57'01", long 74°11'56", Ocean County, at bridge on U.S. Highway 9 Alt., in Toms River.
DRAINAGE AREA.--163 sq mi.
PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971
REMARKS.--Operated as part of the USGS-EPA Surveillance Network.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	NITRATE (NO3) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO-PHYLL A (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 13...	.66	1.3	--	--	.20	6.0	7.4	.02	13000	6.9	4	--
NOV. 17...	.13	.8	--	--	.030	15	8.1	.01	129	4.5	4	--
DEC. 15...	1.1	.8	--	--	.14	7.0	--	.01	1360	6.9	2	--
JAN. 19...	.18	3.7	--	--	.080	4.0	1.4	.01	77	4.6	3	--
FEB. 23...	1.1	2.3	--	--	.080	7.0	1.4	.01	65	4.6	5	--
MAR. 16...	.26	2.2	--	--	.050	6.5	.2	.01	84	4.7	6	--
APR. 27...	.25	2.3	--	--	.040	6.0	2.6	.02	260	5.3	3	--
MAY 25...	1.7	.9	--	--	.080	6.5	3.1	.01	79	4.7	3	--
JUNE 29...	.72	2.0	--	--	.20	10	6.6	.03	82	5.5	34	--
JULY 26...	.77	2.7	--	--	.11	8.5	5.4	.01	2500	6.5	4	--
AUG. 25...	.31	2.7	.12	.19	.12	7.5	.8	.02	94	5.5	6	30
SEP. 28...	.42	1.6	--	--	.040	11	.8	.01	65	4.5	2	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
AUG. 25...	90	480	50	2.0	1.5	19	3	0	5	28	14	64

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
AUG. 25...	15	11	9	1.4	15	6	.00	1	0	11	1	40

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)	HEPTA-CHLOR (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)
AUG. 25...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP. 28...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

01408700 TOMS RIVER AT TOMS RIVER, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	METHYL TRI-THION (UG/L)	PARA-THION (UG/L)	TRI-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
AUG.												
25...	.00	.00	.00	.00	.00	.01	3.6	.2	6.4	.7	5.1	.6
SEP.												
28...	.00	.00	.00	.00	.00	.00	--	--	--	--	--	--

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DEPTH (FT)	PER-CENT OF TOTAL DEPTH	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.										
13...	1130	1.5	50	18.0	22.5	--	7.0	8.0	325	276
NOV.										
17...	1430	2.0	50	9.5	9.1	160	5.6	10.2	442	25
DEC.										
15...	1315	2.0	50	4.7	4.9	--	--	6.0	28	17
JAN.										
19...	1300	2.0	50	.9	--	60	5.2	13.0	116	4
FEB.										
23...	1615	3.0	50	6.3	8.5	70	4.5	13.0	392	2
MAR.										
16...	1530	2.5	50	14.3	18.0	80	4.4	10.4	0	0
APR.										
27...	1230	2.5	50	11.9	18.5	350	4.9	10.2	0	3
MAY										
25...	1500	2.5	50	19.7	31.7	87	4.6	9.0	130	12
JUNE										
29...	1100	2.0	50	21.0	16.6	90	5.8	6.2	--	208
JULY										
26...	1415	2.0	50	22.9	29.8	2100	7.0	6.0	8800	850
AUG.										
25...	1015	1.5	50	17.3	24.9	80	4.8	7.2	1450	34
SEP.										
28...	1400	2.0	50	16.6	24.7	70	--	7.8	2150	66

01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.

LOCATION.--Lat 39°35'42", long 74°51'06", Atlantic County, water-quality recorder at gaging station on N.J. Route 54 bridge, 1 mile south of Folsom.

DRAINAGE AREA.--56.3 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1962-68 (partial-record station), December 1968 to September 1971.
Water temperatures: October 1960 to September 1971.
Sediment records: December 1965 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum, 95 micromhos Nov. 24; minimum, 48 micromhos May 16.
Water temperatures: Maximum, 22.5°C Aug. 2.
Period of record:
Specific conductance (1969-71): Maximum, 95 micromhos Nov. 24, 1970; minimum, 45 micromhos Oct. 2-3, 1969.
Water temperatures: Maximum, 22.5°C Aug. 2; minimum, freezing point on many days during winter months.
Sediment concentrations (1965-70): Maximum daily, 46 mg/l July 31, 1969; minimum daily, less than 0.5 mg/l on many days.
Sediment discharge (1965-70): Maximum daily, 59 tons Apr. 17, 1970; minimum daily, 0.03 ton Sept. 19, 1968.

REMARKS.--Missing continuous water-quality records due to malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
DEC. 10...	61	--	--	--	2.6	1.4	--	9.4	--
APR. 30...	86	3.8	--	10	1.9	1.0	4.7	--	1.5
JULY 14...	34	--	--	--	2.0	1.2	--	5.5	--
SEP. 25...	74	7.3	860	30	2.0	1.3	4.9	--	1.6

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
DEC. 10...	2	0	2	9.3	12	--	6.1	.41
APR. 30...	2	0	2	6.7	6.9	.2	3.1	.68
JULY 14...	5	0	4	5.4	7.4	--	2.6	.77
SEP. 25...	4	0	3	5.1	6.7	.0	2.9	.56

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 10...	--	--	13	11	57	4.9	20	1.2	--
APR. 30...	51	31	9	7	57	5.4	60	.7	12
JULY 14...	--	--	10	6	56	6.7	21	.1	--
SEP. 25...	59	34	11	7	55	5.0	150	1.2	18

01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
DEC. 10...	1345	6.3	65	5.7	10.8	28
APR. 30...	1130	10.6	60	5.2	9.0	200
JULY 14...	1330	19.5	60	5.8	8.0	320
SEP. 25...	1330	18.0	50	5.6	6.4	5420

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
OCT 2, 1970	1350	33	1	.09	DEC 23......	1431	119	1	.32
OCT 5......	1310	31	0	0.02	DEC 24......	0940	121	1	.33
OCT 7......	1240	29	1	.08	JAN 5, 1971	1431	121	0	0.13
OCT 22......	1630	90	9	2.2	JAN 6......	0920	122	6	2.0
OCT 23......	1020	92	8	2.0	JAN 6......	1333	124	1	.33
OCT 23......	1540	93	11	2.8	JAN 11......	0940	98	0	0.10
NOV 4......	1540	56	1	.15	JAN 11......	1433	98	1	.26
NOV 5......	1030	58	2	.31	JAN 12......	0951	97	0	0.10
NOV 5......	1550	58	1	0.11	JAN 23......	0941	66	2	.36
NOV 11......	1445	66	2	.36	JAN 23......	1340	66	2	.36
NOV 12......	0920	69	1	0.13	JAN 24......	1053	68	1	.18
NOV 12......	1515	69	0	0.05	JAN 26......	0832	76	1	.21
NOV 19......	0930	130	1	.35	JAN 26......	1447	76	1	.21
NOV 19......	1430	130	2	.70	JAN 27......	0936	78	1	.21
NOV 20......	0845	132	3	1.1	FEB 8......	1431	158	4	1.7
NOV 29......	1540	85	1	.23	FEB 9......	0913	159	3	1.3
NOV 30......	0900	85	3	.69	FEB 9......	1501	161	1	.43
NOV 30......	1430	85	1	.23	FEB 14......	0831	172	1	.46
DEC 13......	0915	66	1	.18	FEB 14......	1434	172	1	.46
DEC 13......	1410	66	1	.18	FEB 15......	0940	174	1	.47
DEC 14......	0941	68	10	1.8	APR 30......	1130	86	1	.23
DEC 17......	0931	130	1	.35	JUL 14......	1330	34	7	.64
DEC 17......	1401	132	1	.36	JUL 30......	0930	35	3	.28
DEC 18......	0950	132	1	.36	AUG 27......	1105	50	10	1.4
DEC 23......	1021	119	2	.64	AUG 27......	1515	66	30	5.3

01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	64	61	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	67	64	---	---	---	---
6	---	---	---	---	---	---	65	63	---	---	---	---
7	---	---	---	---	---	---	63	61	62	---	---	---
8	---	---	---	---	---	---	62	60	61	---	---	---
9	---	---	---	---	---	---	60	57	59	---	---	---
10	---	---	---	---	---	---	59	57	---	---	---	---
11	---	---	---	---	---	---	59	57	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	65	64	---	---	---	---
16	---	---	---	---	---	---	62	62	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	95	92	---	---	---	---	---	---	---
25	---	---	---	90	84	---	---	---	---	---	---	---
26	---	---	---	83	81	---	---	---	---	---	---	---
27	---	---	---	82	80	---	---	---	---	---	---	---
28	---	---	---	82	81	---	76	73	---	---	---	---
29	---	---	---	---	---	---	73	69	71	---	---	---
30	---	---	---	---	---	---	68	66	---	---	---	---
31	---	---	---	---	---	---	65	63	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	61	60	60
2	---	---	---	---	---	---	---	---	---	60	58	59
3	---	---	---	---	---	---	---	---	---	59	58	58
4	---	---	---	---	---	---	---	---	---	59	57	58
5	---	---	---	---	---	---	---	---	---	59	57	58
6	---	---	---	---	---	---	---	---	---	59	58	58
7	---	---	---	---	---	---	---	---	---	60	58	59
8	---	---	---	---	---	---	---	---	---	60	58	60
9	---	---	---	75	73	---	---	---	---	61	60	60
10	---	---	---	75	72	74	---	---	---	62	60	61
11	---	---	---	75	73	74	---	---	---	62	60	61
12	---	---	---	73	71	72	---	---	---	61	60	60
13	---	---	---	72	71	72	---	---	---	62	60	61
14	---	---	---	71	70	70	---	---	---	63	60	61
15	---	---	---	70	68	---	---	---	---	65	62	64
16	---	---	---	---	---	---	---	---	---	65	48	56
17	---	---	---	---	---	---	---	---	---	69	55	60
18	---	---	---	---	---	---	---	---	---	75	70	73
19	---	---	---	---	---	---	---	---	---	76	74	75
20	---	---	---	---	---	---	---	---	---	74	72	73
21	---	---	---	---	---	---	---	---	---	72	68	70
22	---	---	---	---	---	---	---	---	---	68	63	66
23	---	---	---	---	---	---	---	---	---	64	62	63
24	---	---	---	---	---	---	---	---	---	62	60	61
25	---	---	---	---	---	---	---	---	---	60	59	60
26	---	---	---	---	---	---	---	---	---	88	58	62
27	---	---	---	---	---	---	---	---	---	61	58	59
28	---	---	---	---	---	---	---	---	---	59	57	58
29	---	---	---	---	---	---	---	---	---	58	56	57
30	---	---	---	---	---	---	60	60	---	57	51	55
31	---	---	---	---	---	---	---	---	---	56	51	54
MONTH	---	---	---	---	---	---	---	---	---	88	48	61

01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	61	56	59	61	56	58	69	64	---	---	---	---
2	79	59	65	58	56	57	---	---	---	---	---	---
3	59	56	58	61	58	59	---	---	---	---	---	---
4	57	56	56	61	56	59	---	---	---	---	---	---
5	56	55	56	58	56	57	---	---	---	---	---	---
6	56	55	56	59	58	58	---	---	---	---	---	---
7	56	55	55	60	58	59	---	---	---	---	---	---
8	56	55	55	58	57	58	---	---	---	---	---	---
9	56	54	55	57	55	56	---	---	---	---	---	---
10	58	56	56	55	54	55	---	---	---	---	---	---
11	58	57	57	55	54	54	---	---	---	---	---	---
12	58	57	57	57	55	56	---	---	---	---	---	---
13	59	57	58	62	57	58	---	---	---	---	---	---
14	59	58	59	64	62	63	---	---	---	---	---	---
15	61	59	59	63	59	61	---	---	---	---	---	---
16	62	61	61	60	58	59	---	---	---	---	---	---
17	63	61	62	65	59	62	---	---	---	---	---	---
18	62	60	61	65	63	64	---	---	---	---	---	---
19	61	56	59	65	57	63	---	---	---	---	---	---
20	56	54	55	69	61	66	---	---	---	---	---	---
21	56	53	55	67	63	65	---	---	---	---	---	---
22	56	53	55	64	62	63	---	---	---	---	---	---
23	56	55	56	63	61	62	---	---	---	---	---	---
24	59	56	58	61	55	59	---	---	---	---	---	---
25	59	58	58	55	54	54	---	---	---	---	---	---
26	58	57	58	54	54	54	---	---	---	---	---	---
27	58	57	58	56	54	55	---	---	---	---	---	---
28	58	56	57	57	56	56	---	---	---	---	---	---
29	58	56	56	58	56	57	---	---	---	---	---	---
30	60	58	59	60	56	57	---	---	---	---	---	---
31	---	---	---	64	58	62	---	---	---	---	---	---
MONTH	79	53	58	69	54	59	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	2.0	1.5	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	6.5	6.0	---	---	---	---
6	---	---	---	---	---	---	6.0	4.5	---	---	---	---
7	---	---	---	---	---	---	4.5	2.5	3.5	---	---	---
8	---	---	---	---	---	---	2.5	2.0	2.5	---	---	---
9	---	---	---	---	---	---	4.5	2.5	3.5	---	---	---
10	---	---	---	---	---	---	5.0	4.5	---	---	---	---
11	---	---	---	---	---	---	5.5	4.5	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	5.0	4.5	---	---	---	---
16	---	---	---	---	---	---	4.5	4.0	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	4.0	3.5	---	---	---	---	---	---	---
25	---	---	---	3.5	2.5	---	---	---	---	---	---	---
26	---	---	---	4.5	2.5	---	---	---	---	---	---	---
27	---	---	---	6.0	4.5	---	---	---	---	---	---	---
28	---	---	---	6.5	6.0	---	1.5	1.0	---	---	---	---
29	---	---	---	---	---	---	1.5	0.5	1.0	---	---	---
30	---	---	---	---	---	---	1.0	0.5	---	---	---	---
31	---	---	---	---	---	---	2.0	1.5	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

GREAT EGG HARBOR RIVER BASIN

01411000 GREAT EGG HARBOR RIVER AT FOLSOM, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	13.0	10.0	11.5
2	---	---	---	---	---	---	---	---	---	13.5	11.5	12.5
3	---	---	---	---	---	---	---	---	---	13.0	12.0	12.5
4	---	---	---	---	---	---	---	---	---	13.5	11.5	12.5
5	---	---	---	---	---	---	---	---	---	14.5	11.5	13.0
6	---	---	---	---	---	---	---	---	---	14.5	13.5	14.0
7	---	---	---	---	---	---	---	---	---	15.0	13.5	14.0
8	---	---	---	---	---	---	---	---	---	15.0	13.5	14.0
9	---	---	---	3.5	2.5	---	---	---	---	13.5	12.5	13.0
10	---	---	---	4.0	1.5	3.0	---	---	---	14.5	12.0	13.5
11	---	---	---	5.5	4.0	5.0	---	---	---	16.0	13.0	14.5
12	---	---	---	6.5	4.0	5.0	---	---	---	15.5	14.5	15.0
13	---	---	---	7.5	5.5	6.5	---	---	---	16.0	14.5	15.0
14	---	---	---	7.5	6.5	---	---	---	---	16.5	14.0	15.0
15	---	---	---	10.0	7.0	---	---	---	---	15.0	13.5	14.5
16	---	---	---	---	---	---	---	---	---	14.5	13.0	13.5
17	---	---	---	---	---	---	---	---	---	14.5	12.5	13.5
18	---	---	---	---	---	---	---	---	---	16.0	13.0	14.5
19	---	---	---	---	---	---	---	---	---	17.0	14.5	16.0
20	---	---	---	---	---	---	---	---	---	17.0	15.0	16.0
21	---	---	---	---	---	---	---	---	---	16.0	14.5	15.0
22	---	---	---	---	---	---	---	---	---	14.5	13.5	14.0
23	---	---	---	---	---	---	---	---	---	15.0	12.5	14.0
24	---	---	---	---	---	---	---	---	---	15.5	12.5	14.0
25	---	---	---	---	---	---	---	---	---	16.5	14.5	15.5
26	---	---	---	---	---	---	---	---	---	17.5	15.5	16.5
27	---	---	---	---	---	---	---	---	---	17.0	15.0	15.5
28	---	---	---	---	---	---	---	---	---	15.5	14.0	15.0
29	---	---	---	---	---	---	---	---	---	15.0	14.0	14.5
30	---	---	---	---	---	---	11.5	11.0	---	14.5	13.5	14.0
31	---	---	---	---	---	---	---	---	---	14.5	14.0	14.0
MONTH	---	---	---	---	---	---	---	---	---	17.5	10.0	14.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.0	13.5	14.5	21.5	20.0	20.5	22.0	20.5	21.5	20.0	18.0	19.0
2	16.5	14.5	15.5	21.5	20.5	21.0	22.5	20.5	21.5	18.5	17.5	18.0
3	17.5	15.5	16.5	20.5	19.0	20.0	22.0	20.5	21.5	19.5	17.5	18.5
4	19.5	16.5	17.5	19.0	17.5	18.5	21.5	20.5	21.0	20.0	18.0	19.0
5	19.5	17.0	18.0	18.5	16.5	17.5	21.0	19.5	20.5	21.0	18.5	---
6	19.0	17.0	18.0	20.0	17.5	18.5	20.5	18.0	19.0	---	---	---
7	20.0	17.0	18.5	21.0	19.0	20.0	20.0	18.0	19.0	---	---	---
8	21.0	18.0	19.5	21.5	19.0	20.5	21.0	18.0	19.5	---	---	---
9	20.5	18.5	19.5	21.0	19.0	20.5	21.5	19.0	20.5	---	---	---
10	19.5	17.0	18.0	21.5	20.0	21.0	21.5	20.0	21.0	---	---	---
11	18.0	16.0	17.5	21.0	18.0	19.0	22.0	20.5	21.5	---	---	---
12	19.0	16.5	17.5	18.5	17.0	18.0	21.5	20.5	21.0	---	---	---
13	19.5	17.5	18.5	18.0	16.5	17.5	20.0	17.5	18.5	---	---	---
14	19.5	17.5	18.0	20.5	18.0	19.0	19.0	17.0	18.0	---	---	---
15	17.5	16.0	16.5	20.0	18.0	19.0	20.0	17.5	18.5	---	---	---
16	16.5	15.0	16.0	19.0	17.5	18.5	20.0	18.0	19.0	---	---	---
17	17.5	15.0	16.5	20.5	18.0	19.0	20.5	18.0	19.5	---	---	---
18	18.0	15.5	17.0	21.0	19.0	20.0	20.5	18.0	19.5	---	---	---
19	18.5	16.0	17.0	20.5	19.0	19.5	21.5	18.5	20.0	---	---	---
20	19.5	17.0	18.5	20.5	19.0	19.5	21.0	19.5	20.5	---	---	---
21	20.5	18.0	19.5	19.5	17.5	18.5	22.0	20.0	21.0	---	---	---
22	20.5	18.5	19.5	18.5	17.0	18.0	21.5	20.5	21.0	---	---	---
23	20.0	18.5	19.0	19.0	17.5	18.5	21.5	20.0	21.0	---	---	---
24	20.5	18.0	19.5	20.0	18.0	19.0	20.0	17.0	18.0	---	---	---
25	21.0	18.5	20.0	20.5	19.0	19.5	17.5	15.5	16.5	---	---	---
26	21.0	20.0	20.5	20.5	19.0	20.0	17.5	16.0	17.0	---	---	---
27	21.5	19.5	20.5	21.0	20.0	20.5	19.5	17.5	18.5	---	---	---
28	21.0	19.5	20.5	21.0	19.5	20.0	21.5	19.5	21.0	---	---	---
29	21.0	19.0	20.0	21.5	19.0	20.5	21.0	20.5	20.5	---	---	---
30	20.5	18.5	20.0	21.5	20.5	20.5	21.0	20.0	20.5	---	---	---
31	---	---	---	21.0	20.5	20.5	20.5	20.0	20.5	---	---	---
MONTH	21.5	13.5	18.0	21.5	16.5	19.5	22.5	15.5	20.0	---	---	---

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N. J.

LOCATION.--Lat 39°18'19", long 75°22'37", Cumberland County, water-quality recorder on light ship in bay opposite Bombay Hook Island, Del., and 3 miles south southwest of mouth of Cohansey River, N.J.
PERIOD OF RECORD.--Chemical analyses: April 1969 to September 1971.
EXTREMES.--1970-71:
Specific conductance: Maximum, 40,400 micromhos Oct. 22; minimum, 1,500 micromhos Mar. 4.
Water temperatures: Maximum, 28.5°C Aug. 15, 17-18.
Period of record:
Specific conductance: Maximum, 52,800 micromhos Feb. 10, 1970; minimum, 1,500 Mar. 4, 1971.
Water temperatures (1970-71): Maximum, 30.0°C Aug. 1, 1970; minimum 0.5°C Feb. 9, 15, 1970.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	36400	35200	36080	---	---	---	---	---	---	---	---	---
2	37200	34800	36130	---	---	---	---	---	---	---	---	---
3	38000	33200	36170	---	---	---	---	---	---	---	---	---
4	36400	32800	34650	---	---	---	---	---	---	---	---	---
5	35600	31200	33670	---	---	---	---	---	---	---	---	---
6	36000	31200	33340	---	---	---	---	---	---	---	---	---
7	37600	29600	33920	---	---	---	---	---	---	---	---	---
8	37600	31200	34430	---	---	---	---	---	---	---	---	---
9	38000	32000	35420	---	---	---	---	---	---	---	---	---
10	38000	33200	35950	---	---	---	---	---	---	---	---	---
11	36800	32000	34820	---	---	---	22400	17500	---	---	---	---
12	37200	32800	34830	---	---	---	23400	18300	20670	22500	18300	---
13	36400	32400	33580	---	---	---	23100	17600	20690	23000	18000	---
14	36400	32400	34180	---	---	---	21000	13600	17220	---	---	---
15	36000	31200	33570	---	---	---	15700	13500	14670	---	---	---
16	38800	30000	33870	---	---	---	20500	14400	16410	---	---	---
17	38800	32000	35450	---	---	---	---	---	---	---	---	---
18	37200	31600	34480	---	---	---	---	---	---	---	---	---
19	37200	31600	33720	---	---	---	---	---	---	---	---	---
20	39600	33600	36000	---	---	---	---	---	---	---	---	---
21	39600	32400	36280	---	---	---	---	---	---	---	---	---
22	40400	34400	38100	---	---	---	---	---	---	---	---	---
23	38000	32000	35720	---	---	---	---	---	---	---	---	---
24	35600	25600	32430	---	---	---	---	---	---	---	---	---
25	33600	25200	30250	---	---	---	---	---	---	---	---	---
26	38400	30800	33700	---	---	---	---	---	---	---	---	---
27	39600	34400	37020	---	---	---	---	---	---	---	---	---
28	37600	30000	35650	---	---	---	---	---	---	---	---	---
29	36400	30800	34450	---	---	---	---	---	---	---	---	---
30	38000	33200	35280	---	---	---	---	---	---	---	---	---
31	37600	34000	---	---	---	---	---	---	---	---	---	---
MONTH	40400	25200	34770	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	13700	7800	10910	17800	11700	15200	17600	12800	15600
2	---	---	---	13300	7200	10020	16600	11300	13720	18000	12200	15480
3	---	---	---	12900	6900	10130	15300	10000	13170	17900	12500	15500
4	---	---	---	14000	1500	7690	16400	9700	12910	17400	12700	---
5	---	---	---	7200	3000	4380	16000	10100	13120	---	---	---
6	---	---	---	10600	3800	7190	19000	12300	16730	---	---	---
7	---	---	---	13700	6600	9370	19500	11200	15460	---	---	---
8	---	---	---	14500	7000	9820	17000	11300	14340	---	---	---
9	---	---	---	13500	5100	9270	18000	11200	15670	---	---	---
10	---	---	---	14500	8700	11150	17000	7400	13170	---	---	---
11	---	---	---	15000	10800	13040	17500	10000	14760	---	---	---
12	---	---	---	15500	10000	13260	18500	11700	15570	---	---	---
13	---	---	---	15600	11300	13550	18000	12300	15700	---	---	---
14	---	---	---	15300	10800	13570	13600	8600	10250	16000	13000	---
15	---	---	---	15000	10500	13200	16100	10500	12250	16500	12300	14240
16	---	---	---	13700	9000	12090	16500	9000	13110	16300	9100	11400
17	---	---	---	13600	8400	11870	16900	10000	13410	14100	10100	12480
18	20600	7600	---	15100	8400	12200	17500	10900	14170	14400	9700	12500
19	22500	10500	16230	16400	9000	13130	18000	12500	15370	14400	10700	12620
20	20400	12500	16520	15100	6500	10920	19300	14000	16980	15000	10000	12310
21	21000	13700	17740	13600	6700	9670	20300	15400	18300	14600	10600	12970
22	22300	14000	19540	14900	8700	12000	19500	14700	17010	16600	11100	13390
23	22700	16900	19930	17200	10900	14290	19500	13100	16370	17100	11500	13650
24	20000	13400	16870	16400	12000	14010	20100	13800	16550	16000	12100	14100
25	19500	12500	16170	14300	9300	12290	19500	11900	14780	14900	9100	11910
26	18100	11500	15100	13500	9900	11550	18900	12000	15550	13000	9700	11650
27	16500	9500	13730	21100	10600	12950	18900	12300	15580	13200	10900	11950
28	16500	8500	12370	20500	11400	16000	19500	9600	14020	13300	10500	11560
29	---	---	---	18900	12200	15500	15700	11000	12300	11200	10700	10900
30	---	---	---	17400	11700	14000	18700	12300	15850	11400	10800	11250
31	---	---	---	16800	11500	14350	---	---	---	11500	10500	11310
MONTH	---	---	---	21100	1500	11720	20300	7400	14710	---	---	---

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11100	[illegible]600	10920	21500	16400	18830	24000	16500	20840	21000	11500	17010
2	11600	10600	11050	20300	15300	17710	23000	12800	18620	21000	14500	17540
3	11500	11100	11340	20500	15400	18500	22000	12500	16790	20500	16400	18340
4	11000	10400	10670	22100	15400	19170	17200	10900	14620	19400	15300	17310
5	14700	10500	12170	21300	16300	18600	20000	11500	13450	20600	14300	16550
6	15900	12500	14260	21500	16800	19750	23600	16000	19400	19600	14500	17210
7	16200	13200	14650	22500	18700	20520	24500	16300	19430	21100	15600	18030
8	16600	13300	14820	22000	18300	20350	23500	18000	20480	20000	14900	17280
9	16500	13000	14800	23100	19500	21260	25900	18400	22050	19800	14600	17180
10	17500	13500	14960	23500	19400	21100	24900	16900	20650	21000	14800	17700
11	17400	12800	15120	24500	19800	21800	24500	17200	20220	20000	15300	17570
12	17300	13900	15380	24000	19600	21720	23300	17900	20320	19300	13000	16210
13	16100	13500	14570	25500	20500	23550	23500	17600	21350	19000	12600	16250
14	17200	12300	14560	24900	19200	22050	24400	17000	20700	16600	9600	13450
15	17000	12700	14790	26100	19500	22930	24000	18000	21500	15300	7400	12130
16	18100	12000	15450	25900	20600	23640	25000	18600	21960	17000	8500	13790
17	17[illegible]00	14700	16330	23500	20000	21680	23700	18200	21390	17500	10700	14790
18	17600	14400	15980	25000	18000	21280	25000	18900	22100	17800	12400	15400
19	17600	14200	15840	24500	18500	21700	25400	20500	22850	18700	13300	15980
20	18300	13800	15820	25000	18500	21280	24200	20000	22380	18000	13100	15430
21	19100	14500	16050	26500	21100	23340	24400	20500	22320	15100	11000	13350
22	18800	14500	16290	26500	21200	23670	24400	20500	22700	17600	12400	14710
23	23000	15600	18560	25300	21500	23690	24000	20500	22830	17800	12500	15350
24	22300	18000	20090	26000	21000	23720	25200	21500	22870	16900	12400	14770
25	22000	17200	19400	24900	20800	23050	24000	20000	21970	19500	12700	15450
26	21600	14900	17910	24500	21000	23250	24500	19500	22250	18000	12800	15400
27	21600	17500	19720	25000	20600	23010	24200	13300	21340	19300	11900	15700
28	21400	16700	19400	24500	21500	23000	15000	9500	11520	18500	11700	15530
29	21600	16500	19050	24400	20000	22180	10600	7200	9020	18300	12600	15540
30	21800	17000	19280	23600	17000	21250	16100	5500	11120	21600	13600	18040
31	---	---	---	22100	17500	20230	20000	11000	16160	---	---	---
MONTH	23000	10400	15640	26500	15300	21540	25900	5500	19520	21600	7400	15970

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.0	23.0	23.5	15.0	15.0	15.0	9.5	9.0	9.0	---	---	---
2	23.5	23.0	23.0	15.0	15.0	15.0	9.0	9.0	9.0	---	---	---
3	23.0	21.5	22.5	15.0	14.5	15.0	9.5	9.0	9.0	---	---	---
4	21.5	20.5	21.0	15.0	15.0	15.0	9.5	9.0	9.5	---	---	---
5	20.5	20.0	20.5	15.0	14.5	14.5	9.0	8.5	8.5	---	---	---
6	20.0	19.5	20.0	14.5	13.5	14.0	8.5	7.0	8.0	---	---	---
7	20.0	19.5	19.5	14.0	13.5	13.5	7.0	5.5	6.5	---	---	---
8	20.0	19.5	20.0	13.5	13.5	13.5	6.0	5.5	6.0	---	---	---
9	20.0	20.0	20.0	14.0	13.5	13.5	6.0	5.5	6.0	---	---	---
10	20.5	20.0	20.0	13.5	13.5	13.5	6.0	6.0	6.0	---	---	---
11	20.5	20.0	20.0	14.0	13.5	13.5	6.0	6.0	6.0	---	---	---
12	20.5	20.5	20.5	14.0	14.0	14.0	6.5	6.0	6.0	---	---	---
13	20.5	20.5	20.5	14.0	14.0	14.0	6.5	6.0	6.0	---	---	---
14	21.0	20.5	20.5	14.0	14.0	14.0	6.0	6.0	6.0	---	---	---
15	21.0	20.5	20.5	14.0	13.5	14.0	6.0	5.5	6.0	---	---	---
16	21.0	19.5	20.0	14.0	13.5	13.5	5.5	5.0	5.5	---	---	---
17	19.5	18.0	18.5	13.5	12.0	13.0	---	---	---	---	---	---
18	18.0	16.5	17.0	12.0	12.0	12.0	---	---	---	---	---	---
19	16.5	16.0	16.5	12.0	11.5	12.0	---	---	---	---	---	---
20	16.5	16.0	16.0	12.0	11.5	12.0	---	---	---	---	---	---
21	16.0	16.0	16.0	12.0	11.0	11.5	---	---	---	---	---	---
22	16.0	16.0	16.0	11.5	11.0	11.5	---	---	---	---	---	---
23	16.5	16.5	16.5	11.5	10.5	11.0	---	---	---	---	---	---
24	17.0	16.5	16.5	10.5	9.0	10.0	---	---	---	---	---	---
25	17.0	16.5	17.0	9.0	8.0	9.0	---	---	---	---	---	---
26	16.5	16.5	16.5	9.0	8.5	8.5	---	---	---	---	---	---
27	16.5	16.0	16.0	9.0	8.5	9.0	---	---	---	---	---	---
28	16.0	15.5	15.5	9.0	9.0	9.0	---	---	---	---	---	---
29	15.5	15.5	15.5	9.5	9.0	9.0	---	---	---	---	---	---
30	15.5	15.0	15.5	9.5	9.0	9.0	---	---	---	---	---	---
31	15.5	15.0	15.0	---	---	---	---	---	---	---	---	---
MONTH	24.0	15.0	18.5	15.0	8.0	12.5	---	---	---	---	---	---

01412350 DELAWARE BAY AT SHIP JOHN SHOAL LIGHTHOUSE, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	16.0	15.5	---
15	---	---	---	---	---	---	---	---	---	16.0	15.5	16.0
16	---	---	---	---	---	---	---	---	---	16.0	15.5	16.0
17	---	---	---	---	---	---	---	---	---	16.5	15.5	16.0
18	---	---	---	---	---	---	---	---	---	18.5	16.5	17.5
19	---	---	---	---	---	---	---	---	---	19.0	18.0	18.0
20	---	---	---	---	---	---	---	---	---	18.5	17.0	18.0
21	---	---	---	---	---	---	---	---	---	18.5	17.0	18.0
22	---	---	---	---	---	---	---	---	---	19.0	17.0	18.0
23	---	---	---	---	---	---	---	---	---	18.5	18.0	18.0
24	---	---	---	---	---	---	11.5	11.5	---	18.5	18.0	18.5
25	---	---	---	---	---	---	11.5	11.5	11.5	19.0	18.5	18.5
26	---	---	---	---	---	---	11.5	11.5	11.5	20.0	18.5	19.0
27	---	---	---	---	---	---	11.5	11.5	11.5	19.5	19.0	19.0
28	---	---	---	---	---	---	11.5	11.5	11.5	19.0	18.5	18.5
29	---	---	---	---	---	---	11.5	11.5	11.5	18.5	18.5	18.5
30	---	---	---	---	---	---	11.5	11.5	---	18.5	18.0	18.0
31	---	---	---	---	---	---	---	---	---	20.0	18.0	18.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	18.5	19.0	---	---	---	---	---	---	---	---	---
2	19.5	18.5	19.0	---	---	---	---	---	---	---	---	---
3	20.0	19.5	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	23.0	21.5	---	---	---	---	---	---	---	---	---	---
11	23.0	21.5	22.0	---	---	---	---	---	---	---	---	---
12	23.5	22.0	22.5	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	27.0	26.5	---	26.5	26.5	---
14	---	---	---	---	---	---	28.0	26.5	26.5	26.5	26.5	26.5
15	---	---	---	---	---	---	28.5	26.5	27.0	27.0	26.0	26.5
16	---	---	---	---	---	---	27.0	26.5	27.0	26.5	26.0	26.5
17	---	---	---	---	---	---	28.5	26.5	27.0	26.5	26.5	26.5
18	---	---	---	---	---	---	28.5	26.5	27.0	26.5	26.0	26.0
19	---	---	---	---	---	---	28.0	26.5	27.0	26.5	26.0	26.0
20	---	---	---	---	---	---	28.0	27.0	27.0	26.5	26.0	26.0
21	---	---	---	---	---	---	---	---	---	26.0	25.5	25.5
22	---	---	---	---	---	---	---	---	---	25.5	24.5	25.0
23	---	---	---	---	---	---	---	---	---	25.0	24.5	25.0
24	---	---	---	---	---	---	---	---	---	25.0	24.0	24.5
25	---	---	---	---	---	---	---	---	---	24.0	23.0	23.5
26	---	---	---	---	---	---	---	---	---	23.5	23.0	23.5
27	---	---	---	---	---	---	---	---	---	23.5	23.0	23.0
28	---	---	---	---	---	---	---	---	---	23.5	23.0	23.0
29	---	---	---	---	---	---	---	---	---	23.5	23.0	23.0
30	---	---	---	---	---	---	---	---	---	23.5	23.0	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	POTASSIUM (K) (MG/L)
01407819 - MANASQUAN R TRIB NO 9 NEAR ELTON NJ (LAT 40 13 14 LONG 074 18 19)										
FEB., 1971 24...	--	--	--	--	--	13	5.2	--	9.7	--
SEP. 30...	--	--	--	--	--	11	5.6	--	10	--
01407824 - MANASQUAN R TRIB NO 10 NEAR ADELPHIA NJ (LAT 40 13 15 LONG 074 17 19)										
SEP., 1971 30...	--	--	--	--	--	13	7.1	--	13	--
01407828 - MANASQUAN R TRIB NO 11 NEAR ADELPHIA NJ (LAT 40 13 16 LONG 074 16 48)										
FEB., 1971 24...	--	--	--	--	--	16	5.2	--	15	--
SEP. 30...	--	--	--	--	--	14	5.2	--	9.2	--
01407868 - MANASQUAN R TRIB NO 5 AT WYCKOFF MILLS NJ (LAT 40 12 33 LONG 074 15 49)										
JAN., 1971 28...	--	--	--	--	--	18	7.1	--	8.5	--
FEB. 24...	--	--	--	--	--	18	6.8	--	11	--
01407877 - MANASQUAN R TRIB NO 6 AT ARDENA NJ (LAT 40 12 37 LONG 074 13 47)										
SEP., 1971 30...	--	--	--	--	--	17	3.3	--	7.1	--
01407883 - MANASQUAN R TRIB NO 7 AT SHACKS CORNER NJ (LAT 40 13 43 LONG 074 12 09)										
SEP., 1971 30...	--	--	--	--	--	1.3	.7	--	--	--
01407886 - MANASQUAN R TRIB NO 13 AT SHACKS CORNER NJ (LAT 40 13 41 LONG 074 12 03)										
JAN., 1971 29...	--	--	--	--	--	2.3	1.1	--	7.4	--
SEP. 30...	--	--	--	--	--	1.7	.5	--	--	--
01407930 - MANASQUAN R TRIB NEAR FREEWOOD ACRES NJ (LAT 40 10 56 LONG 074 13 11)										
JUNE, 1971 25...	--	--	--	--	--	2.3	.9	--	2.8	--
AUG. 31...	--	5.3	720	900	45	5.0	2.2	5.0	--	3.7
SEP. 30...	--	--	--	--	--	3.0	1.0	--	8.3	--
01407940 - MANASQUAN R TRIB NO 14 NEAR FREEWOOD ACRES NJ (LAT 40 10 43 LONG 074 13 18)										
JUNE, 1971 25...	--	--	--	--	--	2.1	1.4	--	3.0	--
AUG. 11...	--	2.3	--	810	35	1.9	1.4	3.3	--	2.7
31...	--	2.7	560	800	52	3.2	1.3	3.8	--	3.6
SEP. 30...	--	--	--	--	--	2.0	1.1	--	--	--
01407985 - MARSH BOG BROOK TRIB AT SHACKS CORNER NJ (LAT 40 13 32 LONG 074 11 12)										
JAN., 1971 29...	--	--	--	--	--	3.7	1.9	--	14	--
01407992 - MARSH BOG BROOK AT FARMINGDALE NJ (LAT 40 11 57 LONG 074 10 40)										
JAN., 1971 29...	--	--	--	--	--	5.5	1.6	--	4.6	--
AUG. 11...	--	15	--	2400	53	8.0	1.8	5.3	--	3.1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
01408004 - BEAR SWAMP BROOK AT LOWER SQUANKUM NJ (LAT 40 09 27 LONG 074 09 23)										
JAN., 1971 29...	--	--	--	--	--	2.0	1.1	--	8.1	--
FEB. 25...	--	--	--	--	--	3.9	1.2	--	5.3	--
SEP. 01...	--	4.3	360	15	75	3.0	1.3	4.6	--	1.8
01408009 - MINGAMAHONE BRK NEAR EARLE NJ (LAT 40 12 45 LONG 074 10 07)										
JAN., 1971 29...	--	--	--	--	--	11	1.5	--	5.1	--
MAY 06...	--	12	--	--	47	9.8	1.8	4.5	--	5.0
01408012 - BRANCH MINGAMAHONE BRK NEAR EARLE NJ (LAT 40 12 46 LONG 074 09 48)										
JAN., 1971 29...	--	--	--	--	--	23	1.5	--	7.1	--
MAY 06...	--	18	--	--	74	24	1.3	3.7	--	2.2
01408014 - MINGAMAHONE BRK AT ASBURY AVE AT FARMINGDALE NJ (LAT 40 12 00 LONG 074 09 56)										
FEB., 1971 26...	--	--	--	--	--	10	1.5	--	8.3	--
AUG. 31...	--	14	--	350	60	11	1.3	4.7	--	4.7
01408017 - MINGAMAHONE BRK AT BIRDSALL RD AT FARMINGDALE NJ (LAT 40 11 15 LONG 074 09 31)										
JAN., 1971 29...	--	--	--	--	--	16	1.7	--	5.3	--
01408023 - SQUANKUM BRK NEAR LOWER SQUANKUM NJ (LAT 40 08 47 LONG 074 10 06)										
JAN., 1971 29...	--	--	--	--	--	18	3.0	--	11	--
01408040 - MANASQUAN R AT RIVIERA BEACH NJ (LAT 40 05 50 LONG 074 05 10)										
FEB., 1971 25...	--	--	--	--	--	109	294	5620	6170	--
AUG. 11...	--	.8	--	210	55	243	770	5750	--	300
SEP. 01...	--	7.7	--	120	140	113	223	2100	--	87
01408500 - TOMS RIVER NEAR TOMS RIVER NJ (LAT 39 59 10 LONG 074 13 29)										
DEC., 1970 10...	127	--	--	--	--	4.0	1.5	--	9.7	--
APR., 1971 27...	175	2.2	--	530	47	2.5	1.2	5.3	--	4.1
JULY 26...	82	--	--	--	--	3.0	1.6	--	5.8	--
SEP. 28...	280	4.9	750	1200	70	2.0	1.0	4.7	--	1.2
01410784 - GREAT EGG HARBOR R AT SICKLERVILLE NJ (LAT 39 44 02 LONG 074 57 05)										
APR., 1971 05...	14	3.5	--	--	--	3.6	1.4	9.4	--	2.6
01410790 - GREAT EGG HARBOR R AT NEW BROOKLYN, N.J. (LAT 39 41 47 LONG 074 56 07)										
APR., 1971 05...	26	2.1	--	--	3	3.0	1.3	7.0	--	1.9
01411500 - MAURICE R AT NORMA NJ (LAT 39 29 42 LONG 075 04 38)										
DEC., 1970 10...	100	--	--	--	--	4.2	2.2	--	6.9	--
JUNE, 1971 10...	120	5.3	--	500	26	3.8	2.0	8.0	--	2.5
JULY 14...	53	--	--	--	--	2.8	1.9	--	7.8	--
SEP. 25...	198	7.2	--	1200	60	3.6	2.0	5.5	--	2.1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
01407819 - MANASQUAN R TRIB NO 9 NEAR ELTON NJ (LAT 40 13 14 LONG 074 18 19)										
FEB., 1971 24...	13	0	11	25	15	--	22	.03	--	--
SEP. 30...	17	0	14	13	17	--	26	.02	--	--
01407824 - MANASQUAN R TRIB NO 10 NEAR ADELPHIA NJ (LAT 40 13 15 LONG 074 17 19)										
SEP., 1971 30...	31	0	25	10	25	--	22	.03	--	--
01407828 - MANASQUAN R TRIB NO 11 NEAR ADELPHIA NJ (LAT 40 13 16 LONG 074 16 48)										
FEB., 1971 24...	0	0	0	53	17	--	18	.02	--	--
SEP. 30...	0	0	0	34	17	--	21	.01	--	--
01407868 - MANASQUAN R TRIB NO 5 AT WYCKOFF MILLS NJ (LAT 40 12 33 LONG 074 15 49)										
JAN., 1971 28...	7	0	6	59	18	--	.0	.00	--	--
FEB. 24...	6	0	5	51	15	--	22	.09	--	--
01407877 - MANASQUAN R TRIB NO 6 AT ARDENA NJ (LAT 40 12 37 LONG 074 13 47)										
SEP., 1971 30...	6	0	5	51	9.6	--	.0	.01	--	--
01407883 - MANASQUAN R TRIB NO 7 AT SHACKS CORNER NJ (LAT 40 13 43 LONG 074 12 09)										
SEP., 1971 30...	0	0	0	29	7.2	.0	.2	.01	--	--
01407886 - MANASQUAN R TRIB NO 13 AT SHACKS CORNER NJ (LAT 40 13 41 LONG 074 12 03)										
JAN., 1971 29...	0	0	0	21	7.0	--	.1	.02	--	--
SEP. 30...	0	0	0	13	7.1	.1	3.0	.01	--	--
01407930 - MANASQUAN R TRIB NEAR FREEWOOD ACRES NJ (LAT 40 10 56 LONG 074 13 11)										
JUNE, 1971 25...	0	0	0	11	4.7	--	1.4	.22	--	--
AUG. 31...	0	0	0	25	6.8	.2	.2	.01	60	53
SEP. 30...	0	0	0	14	9.6	.3	.4	.05	--	--
01407940 - MANASQUAN R TRIB NO 14 NEAR FREEWOOD ACRES NJ (LAT 40 10 43 LONG 074 13 18)										
JUNE, 1971 25...	2	0	2	8.6	4.0	--	1.7	.03	--	--
AUG. 11...	5	0	4	7.1	6.1	.0	1.2	.01	41	28
31...	0	0	0	12	7.4	.2	1.3	.00	46	36
SEP. 30...	1	0	1	8.8	5.6	.1	3.2	.01	--	--
01407985 - MARSH BOG BROOK TRIB AT SHACKS CORNER NJ (LAT 40 13 32 LONG 074 11 12)										
JAN., 1971 29...	0	0	0	36	11	--	.3	.00	--	--
01407992 - MARSH BOG BROOK AT FARMINGDALE NJ (LAT 40 11 57 LONG 074 10 40)										
JAN., 1971 29...	0	0	0	22	7.0	--	.0	.01	--	--
AUG. 11...	6	0	5	18	9.6	.2	3.5	.35	80	80

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)
01408004 - BEAR SWAMP BROOK AT LOWER SQUANKUM NJ (LAT 40 09 27 LONG 074 09 23)										
JAN., 1971 29...	0	0	0	21	9.2	--	.2	.00	--	--
FEB. 25...	0	0	0	20	7.4	--	.8	.04	--	--
SEP. 01...	0	0	0	17	17	.2	.5	.05	77	51
01408009 - MINGAMAHONE BRK NEAR EARLE NJ (LAT 40 12 45 LONG 074 10 07)										
JAN., 1971 29...	14	0	11	20	8.6	--	.0	.01	--	--
MAY 06...	14	0	11	20	10	.1	.6	.00	82	71
01408012 - BRANCH MINGAMAHONE BRK NEAR EARLE NJ (LAT 40 12 46 LONG 074 09 48)										
JAN., 1971 29...	45	0	37	27	10	--	.0	.01	--	--
MAY 06...	49	0	40	26	8.0	.1	.0	.06	120	107
01408014 - MINGAMAHONE BRK AT ASBURY AVE AT FARMINGDALE NJ (LAT 40 12 00 LONG 074 09 56)										
FEB., 1971 26...	14	0	11	24	8.9	--	.3	.04	--	--
AUG. 31...	15	0	12	21	7.7	.1	.2	.04	75	72
01408017 - MINGAMAHONE BRK AT BIRDSALL RD AT FARMINGDALE NJ (LAT 40 11 15 LONG 074 09 31)										
JAN., 1971 29...	24	0	20	24	10	--	.2	.02	--	--
01408023 - SQUANKUM BRK NEAR LOWER SQUANKUM NJ (LAT 40 08 47 LONG 074 10 06)										
JAN., 1971 29...	30	0	25	29	13	--	10	.01	--	--
01408040 - MANASQUAN R AT RIVIERA BEACH NJ (LAT 40 05 50 LONG 074 05 10)										
FEB., 1971 25...	81	0	66	560	10100	--	2.6	.10	--	--
AUG. 11...	88	0	72	2060	11000	.9	2.7	.40	20900	20200
SEP. 01...	37	0	30	582	4010	.6	4.4	.17	7580	7150
01408500 - TOMS RIVER NEAR TOMS RIVER NJ (LAT 39 59 10 LONG 074 13 29)										
DEC., 1970 10...	3	0	2	14	12	--	3.8	.05	--	--
APR., 1971 27...	0	0	0	11	9.5	1.0	.9	.00	48	38
JULY 26...	2	0	2	12	6.9	--	3.6	.13	--	--
SEP. 28...	0	0	0	10	8.0	.0	1.9	.09	52	36
01410784 - GREAT EGG HARBOR R AT SICKLERVILLE NJ (LAT 39 44 02 LONG 074 57 05)										
APR., 1971 05...	4	0	3	19	11	.3	2.9	.58	56	56
01410790 - GREAT EGG HARBOR R AT NEW BROOKLYN, N.J. (LAT 39 41 47 LONG 074 56 07)										
APR., 1971 05...	2	0	2	12	8.5	.2	2.2	.73	45	40
01411500 - MAURICE R AT NORMA NJ (LAT 39 29 42 LONG 075 04 38)										
DEC., 1970 10...	6	0	5	11	8.6	--	7.4	.22	--	--
JUNE, 1971 10...	8	0	7	8.4	10	.1	6.5	.30	64	51
JULY 14...	10	0	8	8.7	6.4	--	7.6	.27	--	--
SEP. 25...	7	0	6	8.6	7.9	.0	4.2	.21	74	45

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01407819 - MANASQUAN R TRIB NO 9 NEAR ELTON NJ (LAT 40 13 14 LONG 074 18 19)								
JAN., 1971								
15...	--	--	--	--	--	--	2.4	--
FEB.								
17...	--	--	--	--	--	--	.8	--
24...	54	44	--	172	6.2	4	.3	--
MAY								
28...	--	--	--	--	--	--	.7	--
SEP.								
30...	51	37	--	163	7.2	7	.3	--
01407824 - MANASQUAN R TRIB NO 10 NEAR ADELPHIA NJ (LAT 40 13 15 LONG 074 17 19)								
JAN., 1971								
15...	--	--	--	--	--	--	1.8	--
SEP.								
30...	62	36	--	205	7.7	9	.4	--
01407828 - MANASQUAN R TRIB NO 11 NEAR ADELPHIA NJ (LAT 40 13 16 LONG 074 16 48)								
JAN., 1971								
15...	--	--	--	--	--	--	2.2	--
FEB.								
24...	62	62	.1	227	4.5	3	.6	--
MAY								
28...	--	--	--	--	--	--	6.0	--
SEP.								
30...	57	57	.1	194	4.5	9	2.0	--
01407836 - DEBOIS CREEK NEAR FREEHOLD NJ (LAT 40 13 54 LONG 074 15 35)								
MAR., 1971								
08...	--	--	--	--	--	--	>17	--
JUNE								
03...	--	--	--	--	--	--	>8.3	--
01407842 - DEBOIS CREEK TRIB NEAR FREEHOLD NJ (LAT 40 13 56 LONG 074 15 52)								
MAR., 1971								
08...	--	--	--	--	--	--	>9.2	--
JUNE								
03...	--	--	--	--	--	--	2.8	--
01407849 - APPLEGATES CREEK AT ADELPHIA NJ (LAT 40 13 51 LONG 074 15 15)								
MAR., 1971								
08...	--	--	--	--	--	--	.7	--
JUNE								
03...	--	--	--	--	--	--	1.3	--
01407855 - BURKES CREEK AT ADELPHIA NJ (LAT 40 13 36 LONG 074 15 16)								
MAR., 1971								
08...	--	--	--	--	--	--	1.5	--
JUNE								
03...	--	--	--	--	--	--	2.9	--
01407868 - MANASQUAN R TRIB NO 5 AT WYCKOFF MILLS NJ (LAT 40 12 33 LONG 074 15 49)								
JAN., 1971								
15...	--	--	--	--	--	--	2.4	--
28...	74	69	--	241	6.4	6	.8	--
FEB.								
24...	73	68	--	216	5.8	4	.6	--
01407877 - MANASQUAN R TRIB NO 6 AT ARDENA NJ (LAT 40 12 37 LONG 074 13 47)								
JAN., 1971								
15...	--	--	--	--	--	--	2.8	--
FEB.								
17...	--	--	--	--	--	--	.4	--
APR.								
09...	--	--	--	--	--	--	.7	--
SEP.								
30...	56	51	--	168	6.7	5	.6	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01407883 - MANASQUAN R TRIB NO 7 AT SHACKS CORNER NJ (LAT 40 13 43 LONG 074 12 09)								
JUNE, 1971 04...	--	--	--	--	--	--	.4	--
JULY 23...	--	--	--	--	--	--	.7	--
SEP. 30...	6	6	.7	219	3.5	--	3.3	--
01407886 - MANASQUAN R TRIB NO 13 AT SHACKS CORNER NJ (LAT 40 13 41 LONG 074 12 03)								
JAN., 1971 29...	10	10	.4	104	3.9	3	.0	--
JUNE 04...	--	--	--	--	--	--	.6	--
JULY 23...	--	--	--	--	--	--	.9	--
SEP. 30...	6	6	.4	102	3.9	--	4.3	--
01407930 - MANASQUAN R TRIB NEAR FREEWOOD ACRES NJ (LAT 40 10 56 LONG 074 13 11)								
JAN., 1971 15...	--	--	--	--	--	--	2.8	--
MAY 28...	--	--	--	--	--	--	.9	--
JUNE 25...	9	9	.3	67	4.1	130	1.9	--
JULY 23...	--	--	--	--	--	--	1.7	--
AUG. 31...	22	22	.2	102	3.9	20	.9	14
SEP. 30...	12	12	.2	83	4.3	--	.4	--
01407940 - MANASQUAN R TRIB NO 14 NEAR FREEWOOD ACRES NJ (LAT 40 10 43 LONG 074 13 18)								
JAN., 1971 15...	--	--	--	--	--	--	2.2	--
MAY 28...	--	--	--	--	--	--	.5	--
JUNE 25...	11	10	--	49	5.4	30	.9	--
JULY 23...	--	--	--	--	--	--	1.1	--
AUG. 11...	11	7	--	52	6.7	40	2.0	7.5
31...	14	14	.2	67	4.4	27	2.7	15
SEP. 30...	10	10	.2	61	4.7	--	.4	--
01407980 - MARSH BOG BROOK AT SHACKS CORNER (LAT 40 13 29 LONG 074 10 54)								
FEB., 1971 18...	--	--	--	--	--	--	.8	--
JUNE 04...	--	--	--	--	--	--	.6	--
01407985 - MARSH BOG BROOK TRIB AT SHACKS CORNER NJ (LAT 40 13 32 LONG 074 11 12)								
JAN., 1971 29...	17	17	.7	157	3.9	1	.8	--
FEB. 18...	--	--	--	--	--	--	.6	--
01407992 - MARSH BOG BROOK AT FARMINGDALE NJ (LAT 40 11 57 LONG 074 10 40)								
JAN., 1971 29...	20	20	.3	100	4.2	2	.4	--
JUNE 04...	--	--	--	--	--	--	1.2	--
AUG. 11...	28	23	--	94	6.0	4	>7.2	33

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01408004 - BEAR SWAMP BROOK AT LOWER SQUANKUM NJ (LAT 40 09 27 LONG 074 09 23)								
JAN., 1971								
29...	10	10	.4	125	3.8	1	1.2	--
FEB.								
19...	--	--	--	--	--	--	1.4	--
25...	15	15	.4	118	3.9	14	.9	--
MAR.								
30...	--	--	--	--	--	--	1.8	--
APR.								
09...	--	--	--	--	--	--	.7	--
SEP.								
01...	13	13	.4	134	3.9	120	1.5	19
01408009 - MINGAMAHONE BRK NEAR EARLE NJ (LAT 40 12 45 LONG 074 10 07)								
JAN., 1971								
29...	34	22	--	104	6.4	3	.4	--
MAY								
06...	32	21	--	108	6.7	5	1.8	4.0
27...	--	--	--	--	--	--	1.0	--
JULY								
23...	--	--	--	--	--	--	.4	--
01408012 - BRANCH MINGAMAHONE BRK NEAR EARLE NJ (LAT 40 12 46 LONG 074 09 48)								
JAN., 1971								
29...	64	37	--	173	7.0	1	.8	--
MAY								
06...	66	26	--	161	7.1	15	1.3	5.0
27...	--	--	--	--	--	--	1.0	--
JULY								
23...	--	--	--	--	--	--	.9	--
01408014 - MINGAMAHONE BRK AT ASBURY AVE AT FARMINGDALE NJ (LAT 40 12 00 LONG 074 09 56)								
FEB., 1971								
18...	--	--	--	--	--	--	1.0	--
26...	31	20	--	105	7.1	3	.4	--
MAY								
27...	--	--	--	--	--	--	.8	--
JULY								
23...	--	--	--	--	--	--	.5	--
AUG.								
31...	33	21	--	102	6.9	15	6.0	5.5
01408017 - MINGAMAHONE BRK AT BIRDSALL RD AT FARMINGDALE NJ (LAT 40 11 15 LONG 074 09 31)								
JAN., 1971								
29...	47	28	--	139	6.7	0	4.0	--
FEB.								
18...	--	--	--	--	--	--	.8	--
26...	--	--	--	--	--	--	.4	--
MAY								
27...	--	--	--	--	--	--	1.1	--
JULY								
23...	--	--	--	--	--	--	.8	--
01408023 - SQUANKUM BRK NEAR LOWER SQUANKUM NJ (LAT 40 08 47 LONG 074 10 06)								
JAN., 1971								
29...	58	33	--	185	6.6	3	1.4	--
FEB.								
19...	--	--	--	--	--	--	1.4	--
25...	--	--	--	--	--	--	1.3	--
MAR.								
09...	--	--	--	--	--	--	1.9	--
MAY								
27...	--	--	--	--	--	--	2.2	--

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01408025 - SQUANKUM BRK TRIB AT LOWER SQUANKUM NJ (LAT 40 09 07 LONG 074 09 48)								
MAR., 1971 09...	--	--	--	--	--	--	2.1	--
MAY 27...	--	--	--	--	--	--	3.4	--
01408040 - MANASQUAN R AT RIVIERA BEACH NJ (LAT 40 05 50 LONG 074 05 10)								
FEB., 1971 19...	--	--	--	--	--	--	1.2	--
25...	1480	1420	--	29400	7.3	--	2.2	--
MAR. 30...	--	--	--	--	--	--	3.6	--
JULY 23...	--	--	--	--	--	--	2.9	--
AUG. 11...	3780	3710	--	31500	7.0	15	6.8	8.5
SEP. 01...	1200	1170	--	12700	6.9	9	4.2	10
01408500 - TOMS RIVER NEAR TOMS RIVER NJ (LAT 39 59 10 LONG 074 13 29)								
DEC., 1970 10...	16	14	--	77	4.5	4	1.0	--
APR., 1971 27...	11	11	--	79	4.8	22	.7	9.0
JULY 26...	14	12	--	78	5.5	48	.9	--
SEP. 28...	9	9	.2	63	4.4	125	.6	12
01410784 - GREAT EGG HARBOR R AT SICKLERVILLE NJ (LAT 39 44 02 LONG 074 57 05)								
APR., 1971 05...	15	12	--	92	6.2	24	--	--
01410790 - GREAT EGG HARBOR R AT NEW BROOKLYN, N.J. (LAT 39 41 47 LONG 074 56 07)								
APR., 1971 05...	13	11	--	72	5.6	23	--	--
01411500 - MAURICE R AT NORMA NJ (LAT 39 29 42 LONG 075 04 38)								
DEC., 1970 10...	20	15	--	88	6.1	20	1.4	--
JUNE, 1971 10...	18	11	--	79	7.2	80	1.3	7.5
JULY 14...	15	7	--	79	6.8	25	2.7	--
SEP. 25...	17	12	--	69	5.6	150	1.2	16

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

01407819 - MANASQUAN R TRIB NO 9 NEAR ELTON NJ (LAT 40 13 14 LONG 074 18 19)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
JAN., 1971						
15...	1015	3.8	190	6.3	11.6	50
FEB.						
17...	1045	2.4	160	6.5	13.2	12
24...	1200	5.1	185	6.5	10.8	12
MAY						
28...	1215	16.8	160	6.1	12.0	192
SEP.						
30...	0830	15.8	170	6.7	9.0	1900

01407824 - MANASQUAN R TRIB NO 10 NEAR ADELPHIA NJ (LAT 40 13 15 LONG 074 17 19)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
JAN., 1971						
15...	1030	2.7	590	6.8	12.6	20
SEP.						
30...	0845	16.5	200	7.2	8.8	8000

01407828 - MANASQUAN R TRIB NO 11 NEAR ADELPHIA NJ (LAT 40 13 16 LONG 074 16 48)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
JAN., 1971						
15...	1100	2.7	390	6.6	10.4	0
FEB.						
24...	1345	6.5	235	--	10.8	56
MAY						
28...	1145	17.2	210	5.8	11.4	80
SEP.						
30...	0900	16.2	190	--	8.2	3600

01407836 - DEBOIS CREEK NEAR FREEHOLD NJ (LAT 40 13 54 LONG 074 15 35)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
MAR., 1971						
08...	1315	7.9	270	7.1	5.8	11200
JUNE						
03...	1245	20.5	425	6.8	2.7	55000

01407842 - DEBOIS CREEK TRIB NEAR FREEHOLD NJ (LAT 40 13 56 LONG 074 15 52)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
MAR., 1971						
08...	1230	7.4	325	6.7	9.3	0
JUNE						
03...	1245	22.0	350	7.0	6.8	4

01407849 - APPLEGATES CREEK AT ADELPHIA NJ (LAT 40 13 51 LONG 074 15 15)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
MAR., 1971						
08...	1345	5.7	285	6.2	11.2	18
JUNE						
03...	1230	21.5	250	6.3	9.2	256

01407855 - BURKES CREEK AT ADELPHIA NJ (LAT 40 13 36 LONG 074 15 16)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
MAR., 1971						
08...	1300	5.5	220	6.3	10.8	--
JUNE						
03...	1215	22.0	210	6.8	6.3	0

01407868 - MANASQUAN R TRIB NO 5 AT WYCKOFF MILLS NJ (LAT 40 12 33 LONG 074 15 49)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
JAN., 1971						
15...	1130	3.3	240	6.4	12.2	0
28...	1315	.2	250	6.5	12.6	40
FEB.						
24...	1300	5.1	220	6.4	11.4	150

01407877 - MANASQUAN R TRIB NO 6 AT ARDENA NJ (LAT 40 12 37 LONG 074 13 47)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
JAN., 1971						
15...	1215	6.5	195	6.2	9.0	70
FEB.						
17...	1215	6.5	185	6.3	10.6	2
APR.						
09...	1300	13.5	170	5.6	8.8	0
SEP.						
30...	1000	16.1	--	6.5	8.4	72

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

01407883 - MANASQUAN R TRIB NO 7 AT SHACKS CORNER NJ (LAT 40 13 43 LONG 074 12 09)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
JUNE, 1971						
04...	1100	15.0	160	3.8	1.0	12
JULY						
23...	0930	18.7	160	3.1	1.0	67
SEP.						
30...	1045	16.1	--	--	1.3	28

01407886 - MANASQUAN R TRIB NO 13 AT SHACKS CORNER NJ (LAT 40 13 41 LONG 074 12 03)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
JAN., 1971						
29...	1030	.2	120	3.9	7.2	0
JUNE						
04...	1115	19.2	130	4.0	4.8	168
JULY						
23...	1015	19.0	140	3.3	3.0	80
SEP.						
30...	1030	16.9	115	--	3.0	--

01407930 - MANASQUAN R TRIB NEAR FREEWOOD ACRES NJ (LAT 40 10 56 LONG 074 13 11)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
JAN., 1971						
15...	1500	2.4	110	3.8	12.4	0
MAY						
28...	1045	12.4	95	4.0	6.9	200
JUNE						
25...	1030	19.0	75	3.6	2.5	380
JULY						
23...	1115	20.1	80	--	2.0	--
AUG.						
31...	1015	18.1	100	--	7.6	280
SEP.						
30...	0930	15.8	100	--	6.9	110

01407940 - MANASQUAN R TRIB NO 14 NEAR FREEWOOD ACRES NJ (LAT 40 10 43 LONG 074 13 18)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
JAN., 1971						
15...	1445	3.0	98	4.6	11.0	120
MAY						
28...	1100	17.0	60	4.8	5.8	23
JUNE						
25...	1100	24.2	50	4.9	6.5	220
JULY						
23...	1145	24.0	60	--	6.0	960
AUG.						
11...	1100	25.7	50	5.7	5.4	660
31...	1030	20.2	70	--	5.6	1240
SEP.						
30...	0945	15.9	--	--	7.8	240

01407980 - MARSH BOG BROOK AT SHACKS CORNER (LAT 40 13 29 LONG 074 10 54)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
FEB., 1971						
18...	1115	1.7	100	4.3	10.0	0
JUNE						
04...	1030	18.6	80	4.2	6.1	880

01407985 - MARSH BOG BROOK TRIB AT SHACKS CORNER NJ (LAT 40 13 32 LONG 074 11 12)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
JAN., 1971						
29...	1000	.0	155	3.7	5.0	20
FEB.						
18...	1045	.8	170	4.6	9.2	0

01407992 - MARSH BOG BROOK AT FARMINGDALE NJ (LAT 40 11 57 LONG 074 10 40)

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
JAN., 1971						
29...	1230	.7	100	5.7	11.6	0
JUNE						
04...	1145	18.0	80	5.0	8.1	1020
AUG.						
11...	1245	25.2	90	--	4.6	150000

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
01408004 - BEAR SWAMP BROOK AT LOWER SQUANKUM NJ (LAT 40 09 27 LONG 074 09 23)						
JAN., 1971						
29...	1100	.2	140	3.6	12.4	0
FEB.						
19...	1415	3.4	125	--	12.6	720
25...	1245	3.6	130	3.8	11.6	340
MAR.						
30...	1245	6.6	125	4.4	12.6	3400
APR.						
09...	1130	7.4	120	3.8	11.3	1000
SEP.						
01...	0830	15.8	120	--	7.4	400
01408009 - MINGAMAHONE BRK NEAR EARLE NJ (LAT 40 12 45 LONG 074 10 07)						
JAN., 1971						
29...	1330	2.3	119	6.1	11.4	0
MAY						
06...	1045	12.5	115	6.6	8.4	--
27...	1045	13.3	110	6.5	8.0	14
JULY						
23...	1315	17.1	130	9.0	7.5	140
01408012 - BRANCH MINGAMAHONE BRK NEAR EARLE NJ (LAT 40 12 46 LONG 074 09 48)						
JAN., 1971						
29...	1345	4.3	195	6.4	10.0	20
MAY						
06...	1115	12.6	175	6.7	8.8	79
27...	1030	13.1	175	6.8	7.7	84
JULY						
23...	1245	17.8	220	8.8	8.4	304
01408014 - MINGAMAHONE BRK AT ASBURY AVE AT FARMINGDALE NJ (LAT 40 12 00 LONG 074 09 56)						
FEB., 1971						
18...	1145	3.9	110	6.8	11.8	5
26...	1145	4.1	118	6.4	11.4	0
MAY						
27...	1115	13.2	130	7.2	8.6	92
JULY						
23...	1215	17.0	150	8.8	8.7	15000
AUG.						
31...	1245	17.7	95	--	8.4	1980
01408017 - MINGAMAHONE BRK AT BIRDSALL RD AT FARMINGDALE NJ (LAT 40 11 15 LONG 074 09 31)						
JAN., 1971						
29...	1200	.2	150	6.1	12.4	500
FEB.						
18...	1230	3.5	125	7.2	12.8	60
26...	1215	3.5	125	6.5	12.4	185
MAY						
27...	1145	13.9	135	7.0	9.0	1150
JULY						
23...	1145	18.0	160	8.7	8.6	2400
01408023 - SQUANKUM BRK NEAR LOWER SQUANKUM NJ (LAT 40 08 47 LONG 074 10 06)						
JAN., 1971						
29...	1130	1.4	185	6.4	12.2	2
FEB.						
19...	1345	4.8	150	7.3	11.6	220
25...	1215	4.3	140	6.2	11.2	260
MAR.						
09...	1215	2.7	130	6.3	12.4	1550
MAY						
27...	1245	18.2	140	6.7	7.1	230

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
01408025 - SQUANKUM BRK TRIB AT LOWER SQUANKUM NJ (LAT 40 09 07 LONG 074 09 48)						
MAR., 1971						
09...	1230	6.2	130	--	12.0	195
MAY						
27...	1300	18.7	125	6.0	5.8	1720
01408040 - MANASQUAN R AT RIVIERA BEACH NJ (LAT 40 05 50 LONG 074 05 10)						
OCT., 1970						
06...	1500	18.0	--	8.2	9.0	--
FEB., 1971						
19...	1145	3.4	29200	7.9	12.4	88
25...	1100	4.1	28800	7.6	12.0	82
MAR.						
30...	1045	6.0	28200	7.8	12.2	65
JUNE						
03...	1030	19.7	19200	8.6	11.0	310
JULY						
23...	0830	22.6	11000	8.6	6.8	330
AUG.						
11...	0900	25.3	--	--	5.4	350
SEP.						
01...	1045	21.9	--	--	7.0	1300
01408500 - TOMS RIVER NEAR TOMS RIVER NJ (LAT 39 59 10 LONG 074 13 29)						
DEC., 1970						
10...	1615	5.8	[illegible]	5.0	11.2	24
APR., 1971						
27...	1115	11.1	70	4.7	10.3	8
JULY						
26...	1400	22.6	80	6.3	7.8	7200
SEP.						
28...	1445	16.2	65	5.4	8.0	440
01411500 - MAURICE R AT NORMA NJ (LAT 39 29 42 LONG 075 04 38)						
DEC., 1970						
10...	1230	5.8	90	6.8	11.0	17
JUNE, 1971						
10...	1315	22.3	60	6.8	7.4	10800
JULY						
14...	1015	20.6	85	--	--	156
SEP.						
25...	1230	18.9	65	6.0	6.4	292

01438500 DELAWARE RIVER AT MONTAGUE, N. J. (MILFORD, PA.)

LOCATION.--Lat 41°18'30", long 74°57'50", Sussex County, at U.S. Highway 206 bridge 0.4 mile downstream from gaging station, at Montague.
DRAINAGE AREA.--3,480 sq mi.
PERIOD OF RECORD.--Chemical analyses: February 1956 to September 1971.
Water temperatures: October 1956 to September 1957.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)
OCT. 19...	2670	2.4	50	29	6.0	1.8	3.0	2.0
NOV. 16...	9350	3.4	40	30	7.0	1.4	3.0	1.0
DEC. 09...	3240	2.4	70	85	7.0	1.3	2.6	1.0
JAN. 18...	2600	2.7	140	22	8.8	1.8	3.4	.7
FEB. 24...	10000	3.7	2000	900	9.3	1.5	2.9	1.0
MAR. 17...	21500	3.0	--	255	6.2	1.2	2.8	1.1
APR. 30...	8150	2.1	--	32	6.0	1.0	2.6	.9
MAY 19...	8020	1.8	--	20	6.5	1.0	2.3	1.3
JUNE 14...	1720	2.4	130	63	7.3	1.5	4.2	1.2
JULY 14...	2070	1.9	60	36	8.0	1.8	3.8	1.3
AUG. 16...	1990	1.5	110	28	8.0	1.8	3.3	1.0
SEP. 21...	3050	12	80	20	7.2	1.8	3.4	1.1

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
OCT. 19...	17	0	14	12	3.9	.1	1.2	.04
NOV. 16...	12	0	10	16	4.3	.1	1.6	.08
DEC. 09...	14	0	11	11	5.3	.1	2.5	.04
JAN. 18...	16	0	13	15	6.4	.0	1.4	.03
FEB. 24...	9	0	7	16	6.2	.1	3.8	.15
MAR. 17...	7	0	6	16	4.2	.1	2.7	.04
APR. 30...	11	0	9	12	3.8	.1	2.2	.01
MAY 19...	10	0	8	11	3.7	.1	1.3	.04
JUNE 14...	15	0	12	11	4.9	.1	1.2	.10
JULY 14...	18	0	15	11	4.8	.0	1.7	.03
AUG. 16...	17	0	14	16	4.9	.0	1.2	.07
SEP. 21...	18	0	15	15	4.8	.0	.9	.08

01438500 DELAWARE RIVER AT MONTAGUE, N. J. (MILFORD, PA.)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 19...	57	41	23	9	69	7.1	15	--	--
NOV. 16...	58	44	24	14	71	6.8	12	--	--
DEC. 09...	46	40	23	12	73	6.7	8	.4	--
JAN. 18...	46	48	30	17	80	6.5	3	--	--
FEB. 24...	53	49	29	22	75	5.7	3	--	--
MAR. 17...	50	41	21	15	66	6.7	2	--	--
APR. 30...	46	36	21	12	66	6.8	3	--	--
MAY 19...	52	34	20	12	64	6.9	3	1.6	5.0
JUNE 14...	45	41	24	12	71	7.2	2	--	--
JULY 14...	51	43	28	13	83	7.1	2	.4	--
AUG. 16...	45	46	28	14	77	6.7	5	--	--
SEP. 21...	51	55	26	11	75	7.1	5	.0	5.0

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 19...	0850	9.6	--	--	--	--
NOV. 16...	0830	7.8	--	--	--	--
DEC. 09...	1030	.9	90	8.0	13.8	17
JAN. 18...	0830	.0	--	--	--	--
FEB. 24...	1645	.3	--	--	--	--
MAR. 17...	1345	3.0	--	--	--	--
APR. 30...	1325	8.0	--	--	--	--
MAY 19...	1000	16.0	60	7.2	9.6	1
JULY 14...	1200	21.4	85	7.2	8.4	--
SEP. 21...	1400	21.0	75	6.0	9.2	30

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)

LOCATION.--Lat 41°02'40", long 75°01'42", Monroe County, water-quality recorder on right bank opposite Poxono Island, 0.1 mile upstream from mouth of Vancampens Brook, and 4.4 miles northeast of East Stroudsburg.
DRAINAGE AREA.--3,830 sq mi, approximately.
PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1971.
Water temperatures: October 1966 to September 1971.
EXTREMES.--1970-71:
Specific conductance: Maximum, 94 micromhos Aug. 15; minimum, 57 micromhos May 20.
Dissolved oxygen: Maximum, 15.6 mg/l May 20; minimum, 6.0 mg/l Aug. 15.
Water temperatures: Maximum, 28.0°C July 8, Aug. 15-16; minimum, freezing point on many days during winter months.
Period of record:
Specific conductance: Maximum, 150 micromhos Mar. 21, 1969; minimum, 44 micromhos Jan. 6, 1970.
Dissolved oxygen: Maximum, 17.4 mg/l Jan. 1, 1969; minimum, 6.0 mg/l Sept. 22, 1967 and Aug. 15, 1971.
Water temperatures: Maximum, 29.0°C July 17-18, 1968; minimum, freezing point on many days during winter months.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	76	74	---	66	65	66	65	64	65	83	80	81
2	---	---	---	68	66	67	65	64	65	82	80	81
3	---	---	---	68	67	67	71	65	67	83	80	81
4	---	---	---	69	68	69	72	71	71	80	79	80
5	---	---	---	69	67	68	73	70	72	79	75	77
6	---	---	---	68	66	67	72	71	71	76	74	75
7	---	---	---	69	67	68	73	72	73	76	74	75
8	---	---	---	68	67	68	74	72	73	78	75	77
9	70	70	---	69	67	68	74	73	74	78	75	76
10	70	70	70	71	69	70	74	73	74	78	76	77
11	70	70	70	71	70	70	73	72	72	79	77	78
12	71	70	71	70	69	70	73	70	72	78	76	77
13	72	70	71	69	66	68	73	70	72	77	76	76
14	73	72	73	66	64	65	73	72	73	77	74	76
15	76	71	73	64	64	64	73	71	72	76	74	76
16	74	71	72	64	63	63	75	73	74	78	75	77
17	73	71	72	65	63	64	75	71	74	81	77	79
18	73	71	72	64	63	63	74	73	74	83	81	82
19	74	72	73	63	61	62	76	74	75	84	81	82
20	71	68	70	61	60	61	75	74	74	83	81	82
21	70	68	69	61	60	61	76	74	75	82	79	81
22	72	69	71	62	59	60	76	71	74	81	78	79
23	73	69	---	62	61	61	77	75	76	81	78	79
24	---	---	---	61	60	61	77	74	76	82	79	80
25	---	---	---	62	60	61	78	75	76	83	82	82
26	---	---	---	63	62	62	78	76	77	83	81	82
27	---	---	---	64	62	63	83	78	79	83	80	81
28	---	---	---	64	63	63	81	78	79	82	80	81
29	63	63	---	65	64	64	81	78	80	82	80	81
30	65	63	64	65	65	65	82	80	81	83	79	81
31	65	64	65	---	---	---	82	80	81	84	79	81
MONTH	---	---	---	71	59	65	83	64	74	84	74	79

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	85	82	84	---	---	---	---	---	---	---	---	---
2	87	84	86	---	---	---	---	---	---	---	---	---
3	87	84	85	---	---	---	---	---	---	---	---	---
4	85	81	83	---	---	---	---	---	---	---	---	---
5	85	80	83	---	---	---	---	---	---	---	---	---
6	85	80	82	---	---	---	---	---	---	---	---	---
7	84	81	82	---	---	---	---	---	---	---	---	---
8	85	83	84	---	---	---	---	---	---	---	---	---
9	86	84	85	---	---	---	---	---	---	---	---	---
10	86	83	84	---	---	---	---	---	---	---	---	---
11	84	80	82	---	---	---	---	---	---	---	---	---
12	83	80	81	---	---	---	---	---	---	---	---	---
13	88	81	83	---	---	---	---	---	---	---	---	---
14	83	77	79	---	---	---	---	---	---	---	---	---
15	77	73	75	---	---	---	---	---	---	---	---	---
16	77	69	72	---	---	---	---	---	---	---	---	---
17	69	67	68	---	---	---	---	---	---	---	---	---
18	69	67	68	---	---	---	---	---	---	---	---	---
19	69	68	68	---	---	---	---	---	---	---	---	---
20	72	69	70	---	---	---	---	---	---	60	57	---
21	72	72	72	---	---	---	---	---	---	61	60	60
22	74	71	72	---	---	---	---	---	---	61	59	60
23	74	71	72	---	---	---	---	---	---	60	59	60
24	72	71	71	---	---	---	---	---	---	61	60	60
25	74	72	73	---	---	---	---	---	---	62	61	61
26	77	74	75	---	---	---	---	---	---	62	61	61
27	79	76	77	---	---	---	---	---	---	63	62	63
28	86	75	79	---	---	---	---	---	---	63	62	63
29	---	---	---	---	---	---	---	---	---	64	63	64
30	---	---	---	---	---	---	---	---	---	65	65	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	88	67	78	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	90	83	86	75	70	72	75	71	72
2	---	---	---	83	81	82	71	70	70	75	71	73
3	---	---	---	81	80	80	77	71	73	74	72	73
4	---	---	---	81	80	80	72	66	70	74	72	74
5	---	---	---	81	80	81	69	66	68	76	73	75
6	---	---	---	81	80	81	68	67	67	77	74	75
7	---	---	---	81	80	81	70	66	67	77	74	75
8	71	70	---	81	80	80	73	68	71	77	75	76
9	71	69	70	80	78	79	76	73	74	77	73	74
10	72	71	---	80	78	79	78	77	78	77	74	76
11	74	70	72	85	80	80	78	76	77	76	75	75
12	74	72	73	84	83	83	84	78	81	79	76	77
13	76	73	74	84	83	83	87	78	84	79	77	78
14	75	73	74	86	82	83	85	78	80	78	76	77
15	74	71	73	83	81	82	94	85	---	76	75	75
16	71	69	70	82	81	81	---	---	---	76	75	76
17	71	69	70	81	80	81	---	---	---	77	76	76
18	72	70	71	81	80	80	76	75	---	77	73	75
19	72	70	71	81	80	80	77	73	75	74	72	73
20	73	71	72	81	80	80	75	72	73	82	80	81
21	74	72	73	82	80	80	73	71	72	87	81	84
22	74	72	73	83	80	81	73	72	72	86	84	85
23	74	72	73	83	81	82	72	72	72	84	84	84
24	75	73	74	81	80	80	72	72	72	87	84	86
25	77	73	75	81	80	80	74	73	74	91	87	88
26	76	74	75	80	79	79	76	73	75	---	---	---
27	76	75	76	79	77	78	76	73	74	---	---	---
28	81	76	78	78	77	77	76	63	70	---	---	---
29	84	81	82	78	77	78	71	64	68	71	70	---
30	88	84	85	78	76	76	73	71	72	74	71	73
31	---	---	---	77	71	73	72	71	72	---	---	---
MONTH	---	---	---	90	71	80	94	63	73	91	70	77

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.6	9.6	---	10.4	9.9	10.2	12.0	11.3	11.6	14.2	13.5	13.8
2	---	---	---	10.1	9.9	10.0	12.2	11.5	11.8	14.1	13.4	13.7
3	---	---	---	10.3	10.0	10.1	12.3	11.5	11.8	14.1	13.6	13.8
4	---	---	---	10.6	9.9	10.3	11.8	11.3	11.5	14.0	13.5	13.8
5	---	---	---	11.1	10.2	10.6	11.7	11.3	11.5	14.0	13.4	13.7
6	---	---	---	11.1	10.3	10.7	11.8	11.4	11.6	14.9	13.5	14.0
7	---	---	---	11.5	10.7	11.0	11.8	11.3	11.6	15.3	14.8	15.0
8	---	---	---	11.6	10.8	11.1	11.8	11.4	11.6	15.3	14.9	15.1
9	10.9	9.8	---	11.5	10.8	11.1	11.7	11.4	11.6	15.1	14.6	14.9
10	10.6	9.5	10.0	11.2	10.8	11.0	11.8	11.2	11.5	15.1	14.6	14.7
11	10.3	9.1	9.6	11.5	10.9	11.1	11.8	11.4	11.6	15.2	14.5	14.8
12	10.4	9.0	9.5	11.1	10.4	10.7	11.5	11.1	11.4	15.2	14.6	14.8
13	9.8	9.1	9.4	10.7	10.4	10.5	12.4	11.3	11.7	15.1	14.5	14.8
14	10.2	8.8	9.3	10.7	10.4	10.6	13.5	12.6	13.2	15.3	14.6	14.9
15	8.8	8.3	8.6	10.7	10.5	10.6	13.7	13.5	13.7	15.0	14.5	14.8
16	9.3	8.2	8.8	10.8	10.5	10.6	14.4	13.7	14.0	15.1	14.5	14.8
17	10.5	9.0	9.7	11.1	10.6	10.8	14.4	13.8	14.1	15.1	14.5	14.7
18	10.8	10.3	10.6	11.0	10.6	10.9	14.2	13.8	14.0	15.0	14.6	14.8
19	11.1	10.4	10.7	12.0	10.7	11.4	14.2	13.7	14.0	15.1	14.5	14.8
20	10.8	10.4	10.6	11.9	11.3	11.6	14.5	13.7	14.0	14.9	14.3	14.6
21	10.7	10.1	10.4	11.6	11.2	11.4	14.4	13.7	14.0	14.7	14.5	14.6
22	10.7	10.0	10.4	11.6	11.3	11.5	14.3	13.8	14.0	14.8	14.5	14.6
23	10.0	8.9	9.4	11.4	11.2	11.3	14.3	13.8	14.1	14.5	14.2	14.3
24	8.9	8.2	8.5	11.4	11.1	11.3	14.2	13.6	13.9	14.6	14.3	14.5
25	8.4	8.1	---	11.8	11.4	11.6	14.2	13.8	14.0	14.7	14.1	14.4
26	---	---	---	11.8	11.5	11.6	14.1	13.5	13.8	14.7	14.2	14.5
27	---	---	---	11.8	11.4	11.6	14.1	13.5	13.9	14.3	14.2	14.2
28	---	---	---	11.7	11.4	11.5	14.3	13.7	14.0	14.5	13.7	14.3
29	10.7	10.6	---	11.8	11.3	11.6	14.3	13.6	13.9	14.0	13.1	13.5
30	10.7	10.4	10.5	11.8	11.4	11.6	14.1	13.5	13.8	13.9	12.5	13.0
31	10.6	10.2	10.3	---	---	---	14.1	13.4	13.8	12.9	12.3	12.6
MONTH	---	---	---	12.0	9.9	11.0	14.5	11.1	12.9	15.3	12.3	14.3

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.0	12.3	12.6	12.6	12.0	12.3	---	---	---	---	---	---
2	13.1	12.3	12.7	12.7	12.4	---	---	---	---	---	---	---
3	13.0	12.6	12.8	---	---	---	---	---	---	---	---	---
4	13.1	12.7	12.9	---	---	---	---	---	---	---	---	---
5	13.1	12.5	12.8	---	---	---	---	---	---	---	---	---
6	13.1	12.5	12.7	---	---	---	---	---	---	---	---	---
7	13.4	12.9	13.1	---	---	---	---	---	---	---	---	---
8	13.4	12.8	13.1	---	---	---	---	---	---	---	---	---
9	13.5	12.9	13.1	---	---	---	---	---	---	---	---	---
10	13.4	13.0	13.2	---	---	---	---	---	---	---	---	---
11	13.6	13.3	13.4	---	---	---	---	---	---	---	---	---
12	13.6	13.2	13.5	---	---	---	---	---	---	---	---	---
13	13.5	12.9	13.3	---	---	---	---	---	---	---	---	---
14	13.3	12.7	13.0	---	---	---	---	---	---	---	---	---
15	13.3	13.0	13.1	---	---	---	---	---	---	---	---	---
16	13.3	13.1	13.2	---	---	---	---	---	---	---	---	---
17	13.5	13.1	13.3	---	---	---	---	---	---	---	---	---
18	13.3	13.0	13.1	---	---	---	---	---	---	---	---	---
19	13.9	12.7	13.0	---	---	---	---	---	---	---	---	---
20	12.9	12.5	12.6	---	---	---	---	---	---	15.6	13.6	---
21	12.7	12.2	12.5	---	---	---	---	---	---	13.3	11.7	12.3
22	12.8	12.4	12.6	---	---	---	---	---	---	13.9	11.5	12.9
23	12.9	12.4	12.6	---	---	---	---	---	---	14.8	12.8	13.9
24	12.7	12.4	12.5	---	---	---	---	---	---	14.8	12.7	13.7
25	12.6	12.3	12.5	---	---	---	---	---	---	13.8	12.1	13.0
26	12.7	12.4	12.6	---	---	---	---	---	---	12.9	11.4	12.3
27	12.5	11.5	12.4	---	---	---	---	---	---	13.2	9.9	11.2
28	12.4	12.0	12.3	---	---	---	---	---	---	10.6	9.4	10.0
29	---	---	---	---	---	---	---	---	---	10.5	9.4	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	13.9	11.5	12.9	---	---	---	---	---	---	---	---	---

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	8.8	7.5	8.1
2	---	---	---	---	---	---	---	---	---	8.7	7.7	8.2
3	---	---	---	---	---	---	---	---	---	9.3	7.8	8.5
4	---	---	---	9.9	8.0	---	---	---	---	9.3	8.2	8.7
5	---	---	---	10.0	7.4	8.7	---	---	---	9.3	7.9	8.5
6	---	---	---	10.0	7.2	8.5	---	---	---	8.8	7.8	8.2
7	---	---	---	9.9	7.0	8.4	---	---	---	8.7	7.7	8.1
8	9.3	8.2	---	9.5	6.9	8.3	---	---	---	8.7	7.8	8.1
9	13.1	9.4	11.8	9.1	7.6	8.2	---	---	---	8.9	7.6	8.1
10	15.3	12.8	---	9.1	7.3	8.3	---	---	---	8.4	7.6	8.0
11	---	---	---	8.5	7.4	7.9	---	---	---	9.2	8.6	8.8
12	---	---	---	---	---	---	---	---	---	9.6	8.5	8.9
13	---	---	---	---	---	---	9.1	8.0	---	9.2	8.6	8.8
14	---	---	---	---	---	---	8.8	7.0	8.1	8.9	8.5	8.7
15	---	---	---	---	---	---	8.2	6.0	7.0	10.8	8.1	9.4
16	---	---	---	---	---	---	---	---	---	11.5	9.3	10.2
17	---	---	---	---	---	---	---	---	---	10.6	8.7	9.5
18	---	---	---	---	---	---	9.2	8.1	---	13.6	8.7	10.7
19	---	---	---	---	---	---	8.8	7.5	8.0	13.4	12.5	13.1
20	---	---	---	---	---	---	8.3	7.1	7.7	12.5	11.0	11.7
21	---	---	---	---	---	---	8.1	7.0	7.6	11.7	10.9	11.3
22	---	---	---	---	---	---	8.0	6.9	7.5	11.2	10.3	10.7
23	---	---	---	---	---	---	7.9	6.9	7.4	10.3	9.2	9.8
24	---	---	---	---	---	---	8.1	7.0	7.5	9.3	9.0	---
25	---	---	---	---	---	---	8.4	7.2	7.8	---	---	---
26	---	---	---	---	---	---	8.6	7.4	7.9	---	---	---
27	---	---	---	---	---	---	7.6	7.0	7.3	---	---	---
28	---	---	---	---	---	---	7.7	7.0	7.4	---	---	---
29	---	---	---	---	---	---	7.4	7.0	7.2	9.7	7.3	---
30	---	---	---	---	---	---	8.1	7.2	7.6	8.7	6.8	7.5
31	---	---	---	---	---	---	8.3	7.3	7.8	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	13.6	6.8	9.2

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	16.0	---	10.5	10.0	10.0	5.0	4.0	4.5	0.0	0.0	0.0
2	---	---	---	10.5	10.0	10.5	5.5	5.0	5.0	0.0	0.0	0.0
3	---	---	---	10.0	9.5	10.0	6.0	5.0	5.5	0.0	0.0	0.0
4	---	---	---	10.5	10.0	10.5	6.0	5.0	6.0	0.0	0.0	0.0
5	---	---	---	10.5	9.5	10.0	5.0	4.0	4.5	0.0	0.0	0.0
6	---	---	---	9.5	8.5	9.0	4.0	2.0	3.0	0.0	0.0	0.0
7	---	---	---	9.0	8.0	8.5	1.5	0.5	1.0	0.0	0.0	0.0
8	---	---	---	9.0	8.0	8.5	0.5	0.0	0.0	0.0	0.0	0.0
9	17.0	17.0	---	9.0	8.5	8.5	0.5	0.0	0.0	0.0	0.0	0.0
10	18.5	17.0	18.0	9.0	8.5	8.5	1.0	0.5	0.5	0.0	0.0	0.0
11	18.5	18.0	18.5	9.5	9.0	9.0	1.0	1.0	1.0	0.0	0.0	0.0
12	18.5	18.0	18.0	10.5	9.5	10.0	1.0	0.5	0.5	0.0	0.0	0.0
13	18.0	18.0	18.0	10.5	10.0	10.5	0.5	0.5	0.5	0.0	0.0	0.0
14	19.0	18.0	18.5	10.0	9.5	10.0	1.0	0.5	1.0	0.0	0.0	0.0
15	19.0	19.0	19.0	9.5	9.5	9.5	1.5	1.0	1.0	0.0	0.0	0.0
16	19.0	16.0	17.5	9.0	8.0	8.5	1.0	0.0	0.5	0.0	0.0	0.0
17	16.0	13.5	14.5	8.0	6.5	6.5	0.0	0.0	0.0	0.0	0.0	0.0
18	13.5	12.0	13.0	6.5	6.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0
19	13.0	11.5	12.0	7.0	6.0	6.5	1.0	0.0	0.5	0.0	0.0	0.0
20	11.5	10.5	11.0	7.0	6.5	6.5	1.5	1.0	1.0	0.0	0.0	0.0
21	11.5	11.0	11.0	7.0	6.5	7.0	1.0	0.5	1.0	0.0	0.0	0.0
22	13.0	11.5	12.0	6.5	6.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0
23	14.0	13.0	13.5	6.0	5.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
24	14.5	14.0	14.0	5.0	3.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
25	14.0	14.0	14.0	3.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
26	14.0	14.0	---	3.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
27	---	---	---	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
28	---	---	---	4.0	3.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
29	10.5	10.0	---	4.5	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
30	10.0	9.5	10.0	5.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
31	10.0	10.0	10.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	---	---	---	10.5	1.5	7.5	6.0	0.0	1.0	0.0	0.0	0.0

01440090 DELAWARE RIVER NEAR EAST STROUDSBURG, PA. (NEAR DUNNFIELD, N. J.)--Continued

TEMPERATURE (°C), OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	1.5	0.5	1.0	---	---	---	---	---	---
2	0.0	0.0	0.0	1.5	0.5	1.0	---	---	---	---	---	---
3	0.0	0.0	0.0	1.5	1.0	1.5	---	---	---	---	---	---
4	0.0	0.0	0.0	1.5	0.5	1.0	---	---	---	---	---	---
5	0.0	0.0	0.0	2.0	1.0	1.5	---	---	---	---	---	---
6	0.0	0.0	0.0	4.0	2.0	3.0	---	---	---	---	---	---
7	0.0	0.0	0.0	4.0	4.0	---	---	---	---	---	---	---
8	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
9	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
10	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
11	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
12	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
13	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
14	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
15	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
16	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
17	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
18	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
19	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
20	0.0	0.0	0.0	---	---	---	---	---	---	19.0	18.5	---
21	0.0	0.0	0.0	---	---	---	---	---	---	19.0	17.0	18.0
22	0.0	0.0	0.0	---	---	---	---	---	---	17.0	16.0	16.5
23	0.0	0.0	0.0	---	---	---	---	---	---	16.0	15.0	15.5
24	0.0	0.0	0.0	---	---	---	---	---	---	16.5	15.5	16.0
25	0.0	0.0	0.0	---	---	---	---	---	---	17.0	16.0	16.5
26	0.0	0.0	0.0	---	---	---	---	---	---	16.5	15.5	16.0
27	0.0	0.0	0.0	---	---	---	---	---	---	15.5	15.0	15.5
28	0.5	0.0	0.0	---	---	---	---	---	---	16.0	14.5	15.5
29	---	---	---	---	---	---	---	---	---	17.0	15.5	16.5
30	---	---	---	---	---	---	---	---	---	17.0	17.0	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	26.5	25.5	26.0	24.5	24.0	24.0	23.5	21.5	22.5
2	---	---	---	26.0	25.5	26.0	24.0	23.5	23.5	23.0	22.0	22.5
3	---	---	---	26.0	25.0	25.5	23.5	23.0	23.5	23.0	22.0	22.5
4	---	---	---	26.0	24.5	25.0	23.5	21.5	23.0	24.0	23.0	23.5
5	---	---	---	26.5	24.5	25.5	22.0	21.0	21.5	25.5	24.0	24.5
6	---	---	---	26.5	25.0	25.5	23.0	21.0	22.0	26.0	24.5	25.5
7	---	---	---	27.0	25.5	26.0	23.5	22.0	23.0	26.5	25.5	26.0
8	25.0	24.5	---	28.0	25.5	26.5	25.0	23.0	24.0	26.5	26.0	26.0
9	24.5	23.5	24.0	27.0	26.0	26.5	26.5	24.5	25.5	26.5	25.5	26.0
10	24.5	23.0	---	27.0	26.0	26.5	26.5	25.5	26.0	26.0	25.0	25.5
11	24.5	23.0	23.5	26.0	24.0	25.0	26.5	26.0	26.5	24.5	24.0	24.5
12	24.0	23.0	23.5	25.5	23.5	24.5	26.5	25.0	26.0	24.5	24.0	24.0
13	24.0	23.0	23.5	25.0	24.0	24.5	26.5	24.5	25.0	24.5	24.0	24.0
14	23.0	21.5	22.0	25.0	24.0	24.5	26.5	24.5	25.0	24.0	23.0	23.5
15	21.5	19.5	20.5	25.0	24.0	24.5	28.0	24.5	26.0	23.0	22.0	22.0
16	20.5	19.0	19.5	24.5	23.5	24.0	28.0	25.5	26.5	22.0	21.5	22.0
17	22.0	20.0	21.0	25.0	24.0	24.5	27.0	25.5	26.0	21.5	21.0	21.5
18	23.5	21.5	22.5	25.0	24.0	24.5	26.5	25.5	26.0	21.5	21.0	21.0
19	24.0	23.0	23.5	24.5	23.0	23.5	26.0	25.0	25.5	21.0	20.0	20.5
20	25.0	24.0	24.5	23.5	21.5	22.5	25.5	25.0	25.0	20.5	20.0	20.0
21	25.5	24.5	25.0	23.5	21.5	22.5	26.0	25.0	25.5	20.5	19.5	20.0
22	26.5	25.0	25.5	25.0	23.0	24.0	26.0	25.0	25.5	19.5	18.5	19.0
23	26.5	25.0	25.5	25.0	24.0	24.5	25.5	24.5	25.0	18.5	18.0	18.0
24	27.0	25.5	26.0	25.0	24.0	24.5	24.5	23.0	24.0	18.5	16.5	17.5
25	27.0	25.5	26.5	25.5	24.5	25.0	24.0	22.0	23.0	17.0	16.0	16.5
26	27.0	26.0	26.5	25.5	24.5	25.0	24.0	23.0	23.5	16.0	15.5	15.5
27	27.0	26.0	26.5	25.5	25.0	25.0	23.0	21.5	22.5	15.5	15.5	15.5
28	26.5	25.5	26.0	25.5	24.0	25.0	21.5	21.0	21.5	15.5	15.5	15.5
29	25.5	24.5	25.0	25.5	25.0	25.0	21.5	21.0	21.0	17.0	16.5	---
30	25.5	24.0	25.0	25.0	24.5	24.5	23.0	21.0	22.0	18.0	16.5	17.0
31	---	---	---	24.5	24.0	24.0	23.5	22.0	23.0	---	---	---
MONTH	---	---	---	28.0	21.5	25.0	28.0	21.0	24.0	26.5	15.5	21.5

01442750 DELAWARE RIVER AT DUNNFIELD, N. J. (DELAWARE WATER GAP, PA.)

LOCATION.--Lat 41°58'40", long 75°08'10", Warren County, at bridge on Interstate Highway 80, and 4.0 miles downstream from gaging station, in Dunnfield.

DRAINAGE AREA.--4,150 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: Water years 1965-71 (partial-record station).
Water temperatures: October 1966 to September 1971.
Sediment records: July 1964 to September 1971.

EXTREMES.--1970-71:
Sediment concentrations: Maximum daily, 200 mg/l Feb. 27-28; minimum daily, less than 0.5 mg/l Oct. 13-14.
Sediment discharge: Maximum daily, 13,800 Feb. 28; minimum daily, 3.4 tons Oct. 14.
Period of record:
Sediment concentrations: Maximum daily, 406 mg/l Apr. 3, 1970; minimum daily, less than 0.5 mg/l on many days.
Sediment discharge: Maximum daily, 52,800 tons Apr. 3, 1970; minimum daily, less than 0.05 tons on many days during July and August 1964.

REMARKS.--Records of discharge are given for 01440200 Delaware River below Tocks Island damsite, near Delaware Water Gap, Pa.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
DEC. 09...	3400	--	--	8.3	1.6	--	5.3	--
MAY 19...	9400	1.9	43	6.8	1.3	2.5	--	1.5
JULY 14...	2010	--	--	7.8	1.9	--	3.9	--
SEP. 21...	3290	--	--	--	--	--	--	--

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
DEC. 09...	17	0	14	16	5.1	--	.9	.03
MAY 19...	11	0	9	16	3.7	.2	1.5	.04
JULY 14...	21	0	17	11	4.6	--	1.4	.06

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 09...	--	--	27	13	78	7.1	5	1.0	--
MAY 19...	54	41	23	14	70	7.2	5	1.7	6.0
JULY 14...	--	--	28	11	82	6.6	4	2.2	--
SEP. 21...	--	--	--	--	--	--	--	1.1	6.0

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
DEC. 09...	1300	.5	80	8.2	14.2	9
MAY 19...	1400	17.7	70	8.2	9.8	50
JULY 14...	0930	22.9	94	7.5	8.0	--
SEP. 21...	0900	20.6	95	7.4	9.4	45

01442750 DELAWARE RIVER AT DUNNFIELD, N. J. (DELAWARE WATER GAP)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE-DAILY MEASUREMENT BETWEEN 0800 AND 1000)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.0	10.0	---	---	---	0	7.0	10.0	15.0	24.0	24.0	20.0
2	---	---	9.0	0	---	---	6.0	---	---	---	23.0	---
3	---	11.0	---	---	---	2.0	---	---	---	24.0	22.0	20.0
4	---	---	8.0	0	---	2.0	7.0	10.0	18.0	---	22.0	---
5	20.0	9.0	7.0	2.0	---	0	---	---	---	24.0	23.0	20.0
6	---	---	---	---	---	---	8.0	10.0	20.0	---	---	---
7	16.0	11.0	6.0	2.0	---	4.0	8.0	12.0	---	22.0	22.0	20.0
8	---	---	---	---	---	---	8.0	---	---	---	---	---
9	17.0	10.0	5.0	---	---	---	9.0	11.0	---	24.0	---	---
10	---	---	---	---	---	---	---	---	---	---	21.0	22.0
11	17.0	10.0	5.0	---	---	2.0	7.0	12.0	---	24.0	---	---
12	---	10.0	---	---	---	---	---	12.0	---	---	---	22.0
13	16.0	11.0	3.0	---	---	6.0	---	14.0	---	24.0	20.0	23.0
14	---	8.0	---	0	---	---	8.0	13.0	---	---	---	22.0
15	16.0	---	6.0	---	---	2.0	10.0	13.0	---	25.0	20.0	20.0
16	---	8.0	---	0	---	---	---	14.0	---	---	---	---
17	---	---	---	---	---	---	10.0	14.0	---	24.0	20.0	18.0
18	15.0	---	3.0	---	---	4.0	---	---	---	---	---	18.0
19	---	9.0	---	0	---	---	12.0	---	---	23.0	---	---
20	15.0	---	3.0	---	---	6.0	---	14.0	---	---	22.0	18.0
21	16.0	---	---	---	---	6.0	11.0	---	---	24.0	---	---
22	15.0	8.0	3.0	---	0	6.0	---	14.0	---	---	22.0	19.0
23	14.0	---	---	---	0	6.0	---	---	---	25.0	---	---
24	14.0	9.0	---	0	0	---	---	14.0	---	23.0	20.0	---
25	14.0	---	---	---	0	---	10.0	---	23.0	---	---	---
26	13.0	8.0	---	0	2.0	4.0	---	---	---	---	20.0	---
27	14.0	---	2.0	---	0	---	10.0	---	25.0	23.0	21.0	17.0
28	12.0	10.0	---	0	0	6.0	---	---	---	---	20.0	---
29	---	---	4.0	---	---	5.0	10.0	---	22.0	24.0	21.0	---
30	11.0	12.0	---	0	---	---	---	16.0	---	---	21.0	---
31	---	---	2.0	---	---	6.0	---	---	---	24.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01442750 DELAWARE RIVER AT DUNNFIELD, N. J. (DELAWARE WATER GAP)--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2400	5	32	3210	2	17	4440	3	36
2	2180	4	24	3300	2	18	4270	3	35
3	2420	2	13	3130	2	17	3850	2	21
4	2450	2	13	2660	2	14	3790	2	20
5	2900	1	7.8	3270	2	18	4280	5	58
6	2920	1	7.9	3850	1	10	4540	4	49
7	2700	2	15	3340	1	9.0	4100	3	33
8	2720	3	22	2980	1	8.0	3460	3	28
9	2820	5	38	2640	1	7.1	3400	3	28
10	2620	5	35	2710	2	15	3510	3	28
11	2500	4	27	2960	3	24	3790	2	20
12	2550	2	14	3770	10	102	4180	1	11
13	3420	0	3.9	6330	23	393	3790	1	10
14	3050	0	3.4	9900	13	347	3070	1	8.3
15	3220	1	8.7	9830	13	345	3440	2	19
16	4230	11	126	12000	17	551	3430	2	19
17	5280	15	214	11800	27	860	3230	2	17
18	4140	10	112	9500	14	359	3060	2	17
19	3100	10	84	8260	7	156	3200	2	17
20	2880	12	93	7770	4	84	2990	2	16
21	2320	12	75	8250	7	156	3180	2	17
22	2720	100	734	11100	10	300	3830	2	21
23	10500	90	2550	9510	14	359	3370	2	18
24	23100	170	10600	8400	6	136	3240	3	26
25	14500	50	1960	7460	7	141	3080	3	25
26	9360	28	708	6280	9	153	2790	4	30
27	7790	14	294	5100	8	110	2880	5	39
28	5770	7	109	4840	7	91	2910	3	24
29	4940	5	67	4210	4	45	2790	2	15
30	3900	3	32	4180	2	23	3010	2	16
31	3530	2	19	--	--	--	2640	2	14
TOTAL	148930	--	18041.7	182540	--	4868.1	107540	--	735.3

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3100	2	17	2300	3	19	22800	65	4000
2	2600	4	28	2400	3	19	20700	60	3350
3	2900	3	23	2750	4	30	16200	25	1090
4	3300	4	36	2760	3	22	14800	20	799
5	4800	5	65	3300	3	27	13100	7	248
6	5100	6	83	3100	3	25	10400	4	112
7	5400	5	73	2800	4	30	10000	2	54
8	6300	7	119	2570	5	35	12100	3	98
9	5600	6	91	3020	4	33	11800	5	159
10	4320	3	35	3600	3	29	9470	4	102
11	3900	3	32	3500	4	38	8370	3	68
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	8350	7	158
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	--	--	--	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	--	--	--	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	--	--	--	[illegible]	[illegible]	[illegible]
TOTAL	[illegible]	--	[illegible]	[illegible]	--	[illegible]	[illegible]	--	[illegible]

01442750 DELAWARE RIVER AT DUNNFIELD, N. J. (DELAWARE WATER GAP)--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8290	2	45	8570	2	46	5740	8	124
2	8880	9	216	7110	2	38	4970	6	81
3	13600	12	441	6750	3	55	4300	5	58
4	18500	14	699	7900	3	64	4380	4	47
5	18700	18	909	7300	3	59	4060	6	66
6	17700	17	812	7020	3	57	3130	8	68
7	15800	2	85	6610	2	36	2780	6	45
8	15800	7	299	5830	2	31	3450	5	47
9	15100	8	326	6380	4	69	4140	4	45
10	15200	9	369	7010	17	322	3500	4	38
11	18500	13	649	7220	8	156	2600	5	35
12	16700	11	496	6410	5	87	2300	4	25
13	17600	17	808	6370	38	654	2100	4	23
14	21700	23	1350	16000	60	2590	2200	3	18
15	24000	30	1940	16500	22	980	2590	4	28
16	17800	20	961	12800	8	276	3030	6	49
17	14700	6	238	11800	10	319	3160	5	43
18	12700	3	103	10700	6	173	3070	5	41
19	11700	2	63	9480	4	102	2930	5	40
20	11100	1	30	8250	3	67	2710	4	29
21	11400	1	31	7460	4	81	2450	4	26
22	11200	1	30	8250	6	134	2560	4	28
23	10500	2	57	7110	5	96	2450	4	26
24	9520	2	51	6150	4	66	2480	3	20
25	8550	3	69	5870	3	48	2770	2	15
26	7770	3	63	6360	6	103	2940	3	24
27	7470	3	61	5460	5	74	2680	4	29
28	7200	3	58	5060	4	55	2400	5	32
29	7010	2	38	4670	5	63	2800	6	45
30	9120	2	49	3770	5	51	2400	5	32
31	--	--	--	4680	6	76	--	--	--
TOTAL	403010	--	11346	240770	--	7020	83870	--	1227

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2700	3	22	3000	2	16	3090	8	67
2	3000	3	24	3100	3	25	2580	6	42
3	2800	4	30	3480	6	56	2210	6	36
4	2400	3	19	6500	20	351	2100	5	28
5	2300	2	12	9750	16	421	1720	3	14
6	2200	2	12	6530	6	106	1800	2	9.7
7	2100	3	17	4520	6	73	2190	2	12
8	1900	3	15	3470	6	56	2370	2	13
9	2000	3	16	2580	5	35	2470	3	20
10	2500	2	14	2580	5	35	2340	3	19
11	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	2	12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
15	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
20	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	--	--
TOTAL	[illegible]	--	[illegible]	[illegible]	--	[illegible]	[illegible]	--	[illegible]

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) [illegible]
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) [illegible]

01446550 DELAWARE RIVER NEAR MARTINS CREEK, PA. (ROXBURG, N. J.)

LOCATION.--Lat 40°47'20", long 75°06'59", Northampton County, at Pennsylvania Railroad crossing 900 ft upstream from Oughoughton Creek, 4.7 mi east of Martins Creek.
DRAINAGE AREA.--4,546 sq mi, approximately.
PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.
REMARKS.--Operated as part of the USGS-EPA Surveillance Network. Records of discharge are given for 01446500. Delaware River at Belvidere, N.J.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO-PHYLL A (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
OCT. 21...	1100	2900	.47	1.6	.060	5.0	.9	.02	117	7.0	1	--
NOV. 17...	0945	16600	.34	1.0	.050	7.0	.5	.12	124	6.6	5	--
DEC. 16...	1100	4590	.25	1.5	.000	3.5	.0	.03	118	7.4	0	--
JAN. 26...	1140	3420	.72	2.4	.060	6.0	.9	.02	152	6.8	1	--
FEB. 18...	1130	13100	.54	3.0	.080	7.0	1.2	.02	93	6.9	5	--
MAR. 18...	1130	27000	.63	2.1	.050	6.5	1.4	.01	76	6.6	13	--
APR. 22...	1130	13200	.27	1.5	.26	5.0	2.8	.01	82	7.2	2	--
MAY 20...	1100	10400	2.7	.4	.060	5.5	1.5	.01	88	6.7	3	--
JUNE 28...	1025	3220	.46	.3	.060	8.0	2.0	.01	130	7.0	13	--
JULY 29...	1330	2790	.82	1.4	.030	9.5	2.4	.01	115	6.9	2	10
AUG. 26...	1010	2570	.27	.2	.030	5.0	.6	.01	122	8.3	1	7
SEP. 30...	1020	1620	.35	1.5	.040	5.0	.8	.01	133	7.3	2	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)
JAN. 26...	--	--	--	--	--	--	--	--	20	--	--	--
AUG. 26...	10	150	120	11	4.0	3.7	35	0	15	5.6	.24	.03

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
AUG. 26...	71	3	44	16	21	0	.00	0	0	10	10	90

01446550 DELAWARE RIVER NEAR MARTINS CREEK, PA. (ROXBURG, N. J.)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)
JULY								
29...	.00	.00	.01	.00	.00	.00	.00	.00
AUG.								
26...	.00	.00	.00	.00	.00	--	.00	.00
SEP.								
30...	.00	.00	.00	.00	.00	.00	.00	.00

DATE	HEPTA-CHLOR (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	TRI-THION (UG/L)
JULY							
29...	.00	.00	.00	--	.00	.00	.00
AUG.							
26...	.00	.00	.00	.00	.00	.00	.00
SEP.							
30...	.00	.00	.00	.00	.00	.00	.00

ONSITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.							
21...	19.5	23.0	153	7.4	9.4	1200	0
NOV.							
17...	8.0	9.0	95	7.2	11.2	490	40
DEC.							
16...	0.0	-2.0	120	7.6	12.2	25	0
JAN.							
20...	12.0	9.0	137	7.6	10.7	45	0
FEB.							
10...	2.0	7.0	92	7.1	14.0	66	0
MAR.							
10...	3.0	11.0	100	6.9	13.2	35	0
APR.							
22...	10.0	14.5	75	7.1	11.1	60	6
MAY							
20...	17.0	35.0	96	7.4	9.3	127	0
JUNE							
29...	27.0	35.0	154	7.2	7.7	605	27
JULY							
29...	21.0	33.0	110	7.8	8.4	100	7
AUG.							
26...	22.0	29.0	123	8.5	9.1	108	20
SEP.							
30...	27.0	27.5	128	7.4	9.0	407	247

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)

LOCATION.--Lat 40°42'43", long 75°11'48", Northampton County, on right bank 200 ft from city of Easton pumping station, 1.2 miles upstream from Bushkill Creek in Easton.

DRAINAGE AREA.--4,717 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1947 to September 1951, October 1957 to September 1958, November 1967 to September 1971.

Water temperatures: October 1947 to September 1949, October 1957 to September 1958, October 1963 to September 1964, November 1967 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum, 499 micromhos Nov. 26; minimum, 67 micromhos Mar. 3

Dissolved oxygen: Maximum, 14.6 mg/l Feb. 3; minimum, 7.3 mg/l Aug. 12, 20.

Water temperatures: Maximum, 29.5°C July 9; minimum, freezing point on several days during winter months.

pH: Maximum, 8.9 Oct. 8-9; minimum, 6.4 Aug. 19.

Period of record:

Hardness (1947-51): Maximum, 61 mg/l Aug. 11-20, 1951; minimum, 22 mg/l Apr. 1-10, 1950.

Specific conductance (1967-71): Maximum, 499 micromhos Nov. 26, 1970; minimum, 40 micromhos Apr. 6, 1970.

Dissolved oxygen (1967-71): Maximum, 15.8 mg/l Mar. 8, 1968; minimum, 5.7 July 19-20, 24, 1968.

Water temperatures (1947-49, 1957-58, 1963-64, 1967-71): Maximum 30.0°C July 18, 1968, July 28-29, 1970; minimum, freezing point on many days during winter months.

pH: Maximum, 9.8 May 16, 1970; minimum, 5.7 May 24, 1970.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	126	116	119	---	---	---	---	---	---	---	---	---
2	121	114	118	---	---	---	---	---	---	---	---	---
3	123	110	117	---	---	---	---	---	---	---	---	---
4	119	112	116	155	148	---	---	---	---	---	---	---
5	119	117	118	155	139	146	---	---	---	---	---	---
6	117	106	111	150	140	147	---	---	---	---	---	---
7	117	100	107	141	120	128	---	---	---	---	---	---
8	110	90	101	138	129	131	---	---	---	120	110	---
9	101	90	95	139	130	137	---	---	---	120	110	115
10	99	91	95	140	130	136	---	---	---	120	110	114
11	100	90	95	159	139	144	---	---	---	120	120	120
12	98	90	94	159	149	153	---	---	---	120	110	116
13	115	95	100	190	145	160	---	---	---	110	110	110
14	115	90	98	268	180	208	---	---	---	110	110	110
15	159	92	125	239	170	191	---	---	---	110	109	110
16	212	162	180	204	169	181	---	---	---	120	110	120
17	236	192	213	---	---	---	---	---	---	120	119	120
18	195	149	178	---	---	---	---	---	---	140	120	125
19	148	130	139	---	---	---	---	---	---	140	129	135
20	138	129	133	---	---	---	---	---	---	140	120	131
21	139	125	131	---	---	---	---	---	---	120	115	118
22	167	125	---	---	---	---	---	---	---	118	109	111
23	---	---	---	---	---	---	---	---	---	110	109	110
24	---	---	---	---	---	---	---	---	---	119	109	112
25	---	---	---	479	455	---	---	---	---	119	110	115
26	---	---	---	499	470	485	---	---	---	129	120	123
27	---	---	---	---	---	---	---	---	---	129	120	126
28	---	---	---	---	---	---	---	---	---	133	119	125
29	---	---	---	---	---	---	---	---	---	136	125	131
30	---	---	---	---	---	---	---	---	---	136	112	121
31	---	---	---	---	---	---	---	---	---	130	119	125
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	138	120	127	88	70	78	169	160	165	131	127	128
2	151	137	144	89	80	84	168	159	162	137	133	135
3	150	132	140	90	67	81	160	139	149	137	132	135
4	135	120	126	---	---	---	140	135	138	136	125	129
5	127	120	122	---	---	---	139	129	132	129	121	127
6	133	123	128	---	---	---	141	129	133	131	129	130
7	136	130	133	---	---	---	141	136	139	130	123	127
8	142	127	132	---	---	---	145	139	142	140	126	133
9	159	145	154	143	100	---	148	137	142	147	139	144
10	160	153	157	170	145	154	147	133	141	147	130	141
11	155	135	143	172	138	169	137	126	133	139	125	133
12	140	134	137	176	168	171	130	127	129	131	125	128
13	152	128	137	178	171	175	130	124	128	158	125	141
14	149	131	144	178	170	175	129	119	125	162	139	149
15	134	110	124	176	160	169	122	118	120	170	136	149
16	109	87	94	159	129	143	133	120	125	180	169	173
17	89	85	87	129	118	122	135	128	131	191	169	181
18	98	88	90	127	116	120	138	132	136	255	193	226
19	105	98	100	135	118	123	139	134	137	244	190	211
20	110	103	107	139	132	136	138	129	133	184	142	157
21	110	105	108	145	137	141	135	126	130	152	150	150
22	114	105	111	149	140	145	131	127	129	151	140	147
23	119	96	106	148	140	143	130	125	127	150	141	146
24	98	88	93	153	145	149	127	123	125	151	142	146
25	93	87	89	156	147	153	130	125	128	148	138	143
26	99	89	94	156	149	152	131	127	129	154	147	149
27	99	90	96	157	148	153	130	123	128	149	141	145
28	90	75	87	159	153	157	135	130	133	155	149	151
29	---	---	---	159	157	---	136	135	136	157	150	154
30	---	---	---	---	---	---	137	126	131	169	151	159
31	---	---	---	180	165	---	---	---	---	170	159	166
MONTH	160	75	118	180	67	---	169	118	135	255	121	149

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	169	152	158	160	152	157	138	128	130	148	138	144
2	164	158	160	159	143	149	160	129	142	150	147	149
3	163	163	---	159	150	154	169	160	166	156	150	152
4	---	---	---	159	150	154	170	135	156	161	148	156
5	---	---	---	159	140	148	134	100	109	168	150	161
6	---	---	---	156	137	143	109	100	105	169	163	167
7	---	---	---	158	148	151	120	108	115	165	150	158
8	226	199	---	155	143	149	135	120	125	150	144	149
9	199	183	191	150	138	143	148	120	137	158	130	144
10	191	163	180	146	130	135	150	137	145	158	140	151
11	189	186	187	142	129	135	165	160	163	152	143	148
12	189	186	188	141	130	137	153	132	147	169	150	156
13	193	189	190	136	129	133	156	140	150	210	170	189
14	196	189	195	---	---	---	151	140	147	211	195	205
15	197	181	[illegible]	168	165	---	153	133	143	191	165	176
16	181	166	172	169	141	166	157	140	150	181	169	172
17	166	156	160	169	139	163	158	143	151	180	170	177
18	158	149	151	162	137	160	160	120	141	175	160	165
19	159	150	156	160	135	138	149	118	127	180	168	172
20	160	157	158	160	135	139	140	118	132	169	160	165
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
26	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
27	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
28	[illegible]	[illegible]	[illegible]	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	---	---	---	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	---	---	---
MONTH	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.2	9.3	9.7	---	---	---	---	---	---	14.1	13.9	14.0
2	10.2	9.4	9.8	---	---	---	11.7	11.2	---	14.0	13.7	13.9
3	10.1	9.4	9.7	---	---	---	11.4	11.1	11.2	14.0	13.8	13.9
4	10.2	9.3	9.7	11.6	10.6	---	11.1	10.9	11.0	13.9	13.6	13.8
5	10.4	9.7	10.0	10.7	9.9	10.3	11.3	10.9	11.1	14.1	13.7	13.9
6	10.4	9.6	10.0	10.0	9.4	9.8	11.3	11.1	11.2	14.1	13.8	13.9
7	10.4	9.5	9.9	10.0	9.0	9.5	11.5	11.2	11.3	14.4	13.8	14.2
8	10.5	9.5	9.9	8.9	8.2	8.6	11.6	11.4	11.5	14.2	13.8	14.1
9	10.8	9.4	10.2	8.3	7.9	8.1	12.0	10.8	11.6	14.2	13.6	13.8
10	10.7	9.5	10.1	8.0	7.8	7.9	12.0	11.6	11.8	14.2	13.6	13.8
11	10.9	9.8	10.0	7.9	7.7	7.8	11.8	11.6	11.6	14.2	13.4	13.8
12	10.5	9.5	9.9	7.7	7.6	7.7	11.8	11.5	11.6	14.1	13.4	13.7
13	10.8	9.6	10.2	8.6	7.7	8.1	11.9	11.7	---	14.2	13.5	13.8
14	10.7	9.6	10.1	9.3	8.6	9.0	11.9	11.6	11.8	14.0	13.5	13.7
15	10.3	9.2	9.7	10.0	9.3	9.9	12.0	11.6	11.8	14.2	13.5	13.8
16	10.4	9.5	9.8	10.4	9.9	10.1	11.8	11.6	11.7	14.2	13.4	13.8
17	10.3	9.7	9.9	10.8	10.4	10.6	11.9	11.5	11.7	14.3	13.4	13.8
18	10.7	10.3	10.5	10.8	10.6	10.7	11.9	11.5	11.7	14.4	13.4	13.8
19	10.9	10.2	10.5	11.1	10.8	11.0	11.9	11.5	11.7	14.4	13.4	13.8
20	11.1	10.3	10.6	11.1	11.0	11.0	11.9	11.5	11.6	14.4	13.4	13.8
21	10.7	10.3	10.5	11.7	11.0	11.2	11.8	11.4	11.6	14.2	13.4	13.8
22	10.5	10.0	---	11.4	11.2	11.3	12.1	11.5	11.8	14.2	13.3	13.7
23	---	---	---	11.3	11.1	11.2	12.4	11.8	12.1	14.1	13.3	13.6
24	---	---	---	11.4	11.2	11.3	12.7	12.2	12.5	14.3	13.3	13.7
25	---	---	---	11.6	11.3	11.4	13.1	12.6	12.9	14.5	13.3	13.7
26	---	---	---	12.3	11.6	11.8	13.2	13.0	13.1	13.8	13.1	13.4
27	---	---	---	---	---	---	13.8	12.8	13.3	14.1	13.2	13.6
28	---	---	---	---	---	---	13.8	13.4	13.6	14.2	13.4	13.7
29	---	---	---	---	---	---	13.9	13.5	13.7	14.1	13.3	13.7
30	---	---	---	---	---	---	13.8	13.2	13.5	14.0	13.2	13.6
31	---	---	---	---	---	---	14.0	13.4	13.8	14.2	13.3	13.7
MONTH	---	---	---	---	---	---	14.0	10.8	12.1	14.5	13.1	13.8

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14.6	13.6	13.8	13.9	13.1	13.6	10.9	10.4	10.6	11.1	10.4	10.8
2	14.5	13.5	14.0	14.1	13.8	---	10.7	10.4	10.5	11.0	10.5	10.7
3	14.6	13.6	14.1	---	---	---	10.6	10.4	10.5	11.1	10.5	10.8
4	14.2	13.6	13.8	---	---	---	11.1	10.4	10.8	11.0	10.4	10.7
5	13.8	13.3	13.5	---	---	---	11.3	11.0	11.1	11.0	10.2	10.6
6	14.2	13.2	13.6	---	---	---	11.3	11.1	11.2	10.8	10.1	10.4
7	14.3	13.3	13.7	---	---	---	12.4	11.2	11.7	11.3	10.3	10.7
8	14.0	13.2	13.5	---	---	---	11.5	10.8	11.1	10.3	10.1	10.2
9	14.1	12.9	13.4	13.7	13.4	---	11.5	10.6	11.0	10.4	10.0	10.2
10	14.3	13.1	13.6	14.0	13.7	13.8	11.0	10.3	10.6	11.0	10.2	10.6
11	14.3	13.3	13.8	14.0	13.6	13.7	11.8	10.3	10.9	10.9	10.2	10.5
12	14.3	13.2	13.8	14.2	13.6	13.9	11.9	10.8	11.2	10.5	10.0	10.2
13	13.5	13.2	13.3	14.2	13.9	14.1	11.2	10.5	10.8	10.1	9.7	10.0
14	13.4	13.1	13.3	14.1	13.6	13.7	10.6	10.0	10.3	10.2	[illegible]	---
15	13.6	13.4	13.5	14.3	13.8	14.0	10.1	9.8	9.9	---	---	---
16	13.5	13.4	13.5	14.1	13.8	14.0	10.2	9.9	10.0	---	---	---
17	13.5	13.4	13.5	14.0	13.2	13.5	10.4	10.1	10.2	---	---	---
18	13.6	13.5	13.5	13.5	12.7	13.2	10.2	9.8	10.0	---	---	---
19	13.6	13.5	13.5	12.6	12.2	12.4	10.0	9.5	9.8	---	---	---
20	13.5	13.3	13.4	12.6	12.2	12.4	9.7	9.4	9.5	---	---	---
21	13.5	13.3	13.4	12.5	12.1	12.3	9.5	9.2	9.3	---	---	---
22	13.6	13.3	13.4	12.4	12.0	12.1	10.4	9.1	9.8	10.4	9.6	---
23	13.6	13.3	13.3	12.2	11.6	11.9	10.5	10.1	10.3	10.2	9.4	9.7
24	13.5	13.4	13.4	13.0	11.4	12.2	10.5	10.0	10.2	9.9	9.4	9.6
25	13.5	13.4	13.4	13.1	12.4	12.4	10.6	10.0	10.3	10.1	9.4	9.8
26	13.8	13.4	13.5	12.4	12.1	12.3	10.7	[illegible]	10.5	9.8	9.4	9.6
27	13.6	13.3	13.5	12.6	11.7	12.0	10.9	10.3	10.6	10.8	9.3	9.6
28	13.7	13.1	13.2	12.1	11.8	11.7	10.5	10.2	10.4	9.9	9.3	9.6
29	---	---	---	11.8	11.8	---	10.8	10.3	10.6	9.8	9.3	9.5
30	---	---	---	---	---	---	10.9	10.6	10.7	9.3	9.2	9.3
31	---	---	---	[illegible]	[illegible]	---	---	---	---	9.3	9.4	9.2
MONTH	14.6	12.9	[illegible]	---	---	---	12.4	9.1	10.5	---	---	---

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.3	8.9	9.1	9.8	8.6	9.2	8.8	8.4	8.6	10.0	9.1	9.6
2	9.1	8.7	8.9	9.7	8.5	9.1	8.9	8.5	8.7	10.0	9.1	9.5
3	8.8	8.8	---	9.8	8.6	9.2	9.0	8.6	8.8	10.0	8.9	9.5
4	---	---	---	9.8	8.6	9.3	9.4	8.7	9.0	10.0	8.6	9.3
5	---	---	---	9.8	8.6	9.3	9.5	9.1	9.3	10.0	8.6	9.2
6	---	---	---	9.9	8.6	9.3	9.6	9.2	9.4	9.6	8.5	9.0
7	---	---	---	10.0	8.5	9.2	9.8	9.1	9.4	9.6	8.5	9.0
8	10.9	9.6	---	9.6	8.4	9.0	9.9	9.1	9.4	9.4	8.4	8.9
9	10.5	9.2	9.8	9.3	8.0	8.6	9.8	8.9	9.3	9.6	8.3	8.9
10	10.6	9.2	9.9	9.2	7.9	8.5	9.3	8.3	8.8	9.1	8.3	8.6
11	10.6	9.2	9.9	8.6	8.0	8.3	8.9	7.8	8.4	9.0	8.2	8.6
12	10.5	9.1	9.8	9.1	8.1	8.6	9.0	7.3	8.2	9.0	8.4	8.7
13	10.3	9.1	9.7	9.2	8.2	8.7	9.9	7.8	8.9	8.6	8.3	8.4
14	9.6	9.0	9.3	---	---	---	9.8	8.4	9.1	8.7	8.4	8.5
15	9.8	9.1	9.5	9.9	9.0	---	9.8	8.3	9.1	8.8	8.3	8.6
16	10.3	9.5	9.8	9.3	8.3	8.8	10.0	8.3	9.2	8.4	8.1	8.3
17	10.4	9.6	10.0	9.2	8.2	8.7	9.9	8.2	9.1	8.2	8.0	8.1
18	10.3	9.5	9.9	9.1	8.1	8.6	9.8	8.5	9.1	8.2	8.0	8.1
19	10.6	9.4	9.9	8.6	8.1	8.3	8.6	7.5	8.3	8.1	8.0	8.1
20	10.5	9.3	9.9	9.0	8.1	8.5	8.5	7.3	7.9	8.5	8.1	8.3
21	10.4	9.2	9.8	9.3	8.2	8.8	9.9	7.5	8.7	8.5	8.1	8.3
22	10.5	9.1	9.8	9.2	8.3	8.8	9.7	8.3	9.0	8.5	8.0	8.2
23	10.6	9.0	9.8	9.2	8.2	8.7	9.7	8.4	9.0	8.6	8.2	8.4
24	10.5	8.7	9.5	9.2	8.1	8.6	9.7	8.3	9.0	8.7	8.2	8.5
25	10.3	8.6	9.4	9.1	8.1	8.6	9.8	8.4	9.1	8.6	8.2	8.4
26	10.2	8.5	9.3	---	---	---	9.9	8.4	9.1	8.5	8.1	8.3
27	10.2	8.5	9.4	---	---	---	8.7	8.4	8.5	8.5	8.2	8.4
28	10.0	8.5	9.2	---	---	---	9.0	8.5	8.9	8.6	8.3	8.5
29	9.5	8.4	8.9	9.1	8.5	---	11.8	8.9	10.4	11.1	8.4	9.2
30	9.8	8.6	9.2	8.9	8.1	8.4	10.4	9.4	10.0	10.8	8.4	9.0
31	---	---	---	9.1	8.2	8.6	9.8	9.1	9.4	---	---	---
MONTH	10.9	8.4	9.6	10.0	7.9	8.8	11.8	7.3	9.0	11.1	8.0	8.7

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	18.5	19.0	---	---	---	---	---	---	2.0	1.0	1.0
2	19.0	18.0	18.5	---	---	---	8.5	8.0	---	2.0	1.0	1.5
3	20.0	18.5	19.0	---	---	---	8.5	7.0	8.0	3.0	1.5	2.0
4	19.0	16.5	18.0	12.0	12.0	---	9.0	8.0	8.5	3.0	1.5	2.0
5	18.0	16.0	17.0	11.5	11.0	11.5	8.0	6.5	7.0	3.5	3.0	3.0
6	18.0	17.0	17.5	11.0	10.5	11.0	6.5	5.0	6.0	2.0	1.5	1.5
7	19.0	18.0	18.5	11.0	10.0	10.5	5.0	4.0	4.5	1.5	1.0	1.0
8	18.5	18.0	18.5	11.0	10.0	10.5	4.0	3.0	3.5	1.5	0.5	1.0
9	19.5	18.5	19.0	11.0	10.5	10.5	3.5	3.5	3.5	1.5	1.0	1.5
10	20.0	19.0	19.5	11.5	11.0	11.0	4.0	3.5	3.5	2.0	1.0	1.5
11	20.0	19.5	19.5	12.0	11.5	12.0	3.5	3.5	3.5	3.0	2.0	2.5
12	20.5	19.5	20.0	13.0	12.0	12.5	3.5	3.5	3.5	3.5	3.0	3.0
13	20.5	20.0	20.0	13.0	11.5	12.0	4.0	3.5	---	3.0	1.5	1.5
14	20.5	19.5	20.0	12.0	11.5	11.5	4.0	3.5	3.5	1.5	1.0	1.5
15	20.5	19.5	20.0	11.5	11.0	11.0	4.0	3.5	4.0	2.0	1.5	1.5
16	19.5	17.0	18.5	11.0	10.0	10.5	4.0	3.0	3.5	1.5	0.5	1.0
17	18.0	15.5	16.5	10.0	9.5	9.5	3.5	3.0	3.5	1.5	0.5	1.0
18	15.5	15.0	15.5	10.0	8.5	9.0	3.5	3.0	3.5	1.5	1.0	1.0
19	15.0	14.0	14.5	9.0	8.5	9.0	4.0	3.5	3.5	1.5	1.0	1.0
20	14.0	13.5	14.0	9.5	9.0	9.0	4.0	3.5	4.0	1.5	1.0	1.0
21	14.5	14.0	14.0	9.5	9.0	9.0	4.0	3.5	3.5	2.0	1.0	1.5
22	15.0	14.5	---	9.0	8.5	8.5	4.0	2.0	3.0	3.0	1.5	2.0
23	---	---	---	9.0	8.0	8.5	2.0	1.5	1.5	3.5	2.0	2.5
24	---	---	---	8.0	6.0	6.5	2.0	1.5	2.0	2.0	1.5	2.0
25	---	---	---	6.0	5.0	5.5	2.0	2.0	2.0	4.0	2.0	3.0
26	---	---	---	5.0	5.0	5.0	2.0	1.5	1.5	4.0	2.0	3.5
27	---	---	---	---	---	---	1.5	1.0	1.0	2.0	0.5	1.0
28	---	---	---	---	---	---	1.5	0.5	1.0	0.5	0.0	0.5
29	---	---	---	---	---	---	1.5	1.0	1.5	1.5	0.5	1.0
30	---	---	---	---	---	---	1.5	1.0	1.5	2.0	1.0	1.5
31	---	---	---	---	---	---	2.0	1.0	1.5	1.5	0.5	1.0
MONTH	---	---	---	---	---	---	9.0	0.5	3.5	4.0	0.0	1.5

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.0	0.0	3.0	1.5	2.5	8.0	7.0	7.5	11.0	10.0	10.5
2	1.0	0.0	0.0	3.0	2.0	3.0	8.5	7.0	8.0	10.5	10.0	10.0
3	1.0	0.0	0.5	3.0	1.5	2.5	8.5	8.0	8.0	11.0	10.5	10.5
4	0.5	0.0	---	2.0	1.0	1.5	8.0	7.0	7.5	11.5	10.5	11.0
5	---	---	---	1.5	0.5	1.0	8.0	6.5	7.0	13.0	11.0	12.0
6	---	---	---	3.5	1.0	2.0	7.0	5.5	6.5	13.0	12.0	12.5
7	---	---	---	3.5	3.5	---	6.5	5.5	6.0	14.0	11.5	12.5
8	---	---	---	---	---	---	7.0	6.0	6.5	13.5	12.0	13.0
9	---	---	---	3.0	2.0	---	8.5	6.5	7.5	13.0	12.0	12.0
10	2.0	1.5	---	3.0	1.5	2.5	9.0	8.0	8.5	13.5	11.5	12.5
11	3.5	1.0	2.0	4.0	3.0	3.5	8.5	7.0	8.0	15.0	13.0	14.0
12	4.5	3.5	4.0	4.5	4.0	4.0	9.0	7.0	8.0	15.5	14.5	15.0
13	4.0	3.5	4.0	5.5	5.0	5.0	10.0	8.0	9.0	15.5	14.5	15.0
14	3.5	2.0	2.5	6.5	5.0	5.5	10.5	10.0	10.0	15.5	14.0	14.5
15	2.0	1.5	1.5	6.5	6.0	6.0	9.5	8.5	9.0	15.5	13.5	14.5
16	2.0	1.0	1.5	6.5	5.5	6.0	8.5	7.0	8.0	14.5	14.0	14.0
17	2.0	1.0	1.5	6.0	4.0	5.0	8.5	6.5	7.5	16.0	13.5	14.5
18	3.5	1.5	2.5	4.5	3.5	4.0	9.5	8.0	9.0	18.0	15.0	16.0
19	3.0	2.0	2.5	4.0	3.5	3.5	11.0	9.0	10.0	18.5	16.5	17.5
20	3.5	3.0	3.0	3.5	3.0	3.5	12.0	10.5	11.0	19.0	17.0	18.0
21	4.0	3.0	3.5	4.0	3.0	3.5	13.0	11.5	12.5	18.5	18.0	18.0
22	4.0	3.0	3.0	4.5	4.0	4.0	12.0	11.5	11.5	18.0	16.5	17.0
23	3.0	3.0	3.0	5.0	4.0	4.5	12.0	10.5	11.5	17.0	16.0	16.5
24	3.0	1.5	2.0	5.0	3.0	4.5	11.5	10.5	11.0	17.0	15.5	16.5
25	3.0	1.0	2.0	4.5	3.0	4.0	10.5	9.5	10.0	18.0	16.5	17.0
26	3.0	1.5	2.0	4.5	3.0	4.0	10.0	9.5	9.5	18.0	16.5	17.0
27	3.5	3.0	3.0	5.0	3.5	4.0	11.0	9.5	10.0	16.5	15.5	16.0
28	3.5	1.5	2.5	6.0	3.5	5.0	10.5	10.5	10.5	17.0	15.5	16.0
29	---	---	---	6.5	6.0	---	10.5	10.5	10.5	18.0	15.5	17.0
30	---	---	---	---	---	---	11.0	10.5	10.5	17.0	16.5	16.5
31	---	---	---	8.0	7.0	---	---	---	---	17.0	16.0	16.5
MONTH	4.5	0.0	---	8.0	0.5	4.0	13.0	5.5	9.0	19.0	10.0	14.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	15.5	17.5	28.0	26.5	27.0	26.0	25.0	25.5	23.5	21.0	22.5
2	18.5	17.0	18.0	27.0	26.0	26.5	25.0	24.5	24.5	23.5	22.0	23.0
3	18.0	18.0	---	27.0	25.0	26.0	25.0	24.0	24.5	24.0	23.0	23.5
4	---	---	---	26.5	24.5	25.5	24.5	23.5	24.0	25.0	23.5	24.5
5	---	---	---	26.5	24.5	25.5	23.5	22.0	22.5	26.0	24.5	25.5
6	---	---	---	27.0	25.0	26.0	23.5	21.0	22.5	26.5	25.5	26.0
7	---	---	---	28.5	26.5	27.5	24.5	22.0	23.5	27.0	26.0	26.5
8	25.0	24.5	---	29.0	26.5	28.0	25.5	23.5	24.5	27.0	26.5	26.5
9	25.0	23.0	24.0	29.5	28.0	28.5	26.5	24.5	25.5	28.0	26.5	27.0
10	24.5	23.0	24.0	29.0	28.0	28.5	28.0	26.0	27.0	27.0	26.5	26.5
11	24.0	23.0	23.5	28.0	25.0	26.5	27.0	26.5	27.0	26.5	26.0	26.0
12	24.5	23.5	24.0	26.5	24.5	25.5	27.0	26.0	26.5	26.0	25.0	25.5
13	24.5	24.0	24.0	26.0	24.0	25.0	28.0	25.0	26.5	25.0	23.0	24.0
14	24.0	21.5	23.0	---	---	---	28.0	25.5	26.5	23.0	21.5	22.0
15	21.5	20.0	21.0	26.5	26.5	---	27.0	26.0	26.5	23.0	21.5	22.0
16	20.5	19.5	20.0	26.5	25.5	26.0	27.0	25.0	26.0	24.0	21.5	22.5
17	22.0	19.5	20.5	27.0	26.0	26.5	28.0	26.0	27.0	23.0	21.5	22.0
18	23.0	20.5	22.0	27.0	26.0	26.5	28.0	26.0	27.0	23.0	21.5	22.0
19	24.5	21.5	23.0	26.0	25.0	25.0	27.0	26.5	26.5	22.0	21.0	21.5
20	25.0	23.5	24.0	25.5	24.5	25.0	27.0	26.5	26.5	22.0	20.5	21.5
21	25.5	24.5	25.0	25.5	23.5	24.5	28.0	26.5	27.0	22.0	21.0	21.5
22	26.5	25.0	26.0	26.0	24.0	25.0	28.0	26.0	27.0	21.5	20.0	20.5
23	27.0	25.5	26.5	26.5	25.0	25.5	26.5	25.5	26.0	20.0	19.5	19.5
24	28.0	26.0	27.0	26.5	25.0	26.0	25.5	24.5	25.0	20.0	19.0	19.5
25	28.0	26.5	27.0	27.0	26.0	26.5	25.0	23.5	24.5	19.5	18.0	18.5
26	28.5	26.5	27.5	---	---	---	25.0	24.0	24.5	19.0	18.0	18.0
27	28.0	26.5	27.5	---	---	---	25.0	23.0	24.0	18.0	17.0	17.5
28	28.0	26.5	27.0	---	---	---	23.0	21.5	22.0	18.5	17.0	18.0
29	27.0	25.5	26.0	27.0	26.5	---	22.0	21.5	21.5	19.5	18.0	18.5
30	26.5	25.5	26.0	26.5	26.0	26.5	23.0	21.0	22.5	19.5	18.5	19.0
31	---	---	---	26.5	26.0	26.0	23.5	22.0	22.5	---	---	---
MONTH	28.5	15.5	24.0	29.5	[illegible]	26.0	28.0	21.0	25.0	28.0	17.0	22.5

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	7.2	7.8	---	---	---	---	---	---	8.0	7.6	7.8
2	8.6	7.3	7.9	---	---	---	7.3	7.1	---	8.6	7.6	8.0
3	8.6	7.4	7.9	---	---	---	7.5	7.0	7.2	8.8	7.5	8.0
4	8.5	7.3	7.9	7.4	7.2	---	7.3	7.1	7.2	7.8	7.4	7.6
5	8.6	7.4	8.0	7.5	7.2	7.3	7.2	7.1	7.2	7.9	7.4	7.6
6	8.6	7.4	8.0	7.4	7.2	7.3	7.2	7.0	7.1	7.6	7.3	7.5
7	8.8	7.4	8.1	7.6	7.2	7.4	7.2	7.0	7.1	7.8	7.5	7.7
8	8.9	7.4	8.2	7.8	7.3	7.5	7.1	7.0	7.1	7.9	7.3	7.6
9	8.9	7.5	8.1	7.7	7.3	7.5	7.5	7.0	7.2	7.7	7.2	7.4
10	8.8	7.4	8.1	7.5	7.4	7.4	7.8	7.2	7.5	8.1	7.2	7.5
11	8.6	7.4	7.9	7.7	7.3	7.5	7.4	7.2	7.3	8.1	7.2	7.5
12	8.8	7.3	8.0	7.4	7.3	7.4	7.3	7.1	7.2	8.1	7.2	7.6
13	8.7	7.3	7.9	7.3	7.2	7.3	---	---	---	8.0	7.1	7.5
14	8.6	7.2	7.8	7.2	7.2	7.2	---	---	---	7.6	7.1	7.3
15	7.5	7.1	7.2	7.2	7.2	7.2	---	---	---	8.0	7.1	7.4
16	7.5	7.2	7.4	7.2	7.2	7.2	7.4	7.3	---	8.3	7.1	7.6
17	7.3	7.1	7.1	7.2	7.2	7.2	7.4	7.3	7.4	8.4	7.2	7.7
18	7.3	7.0	7.2	7.3	7.2	7.2	7.5	7.3	7.4	8.8	7.3	7.9
19	7.8	7.2	7.4	7.5	7.2	7.3	7.8	7.3	7.6	8.6	7.4	7.9
20	8.0	7.3	7.6	7.4	7.2	7.2	7.6	7.3	7.5	8.5	7.3	7.8
21	7.8	7.3	7.5	7.4	7.2	7.3	7.6	7.5	7.6	8.1	7.2	7.6
22	7.4	7.3	---	7.3	7.2	7.3	7.7	7.3	7.5	8.3	7.2	7.6
23	---	---	---	7.3	7.2	7.2	7.5	7.2	7.4	8.2	7.2	7.5
24	---	---	---	7.3	7.2	7.2	7.8	7.3	7.5	8.3	7.1	7.6
25	---	---	---	7.2	7.2	7.2	7.8	7.3	7.6	8.7	7.2	7.8
26	---	---	---	7.3	7.2	7.3	7.8	7.4	7.6	8.0	7.3	7.6
27	---	---	---	---	---	---	7.5	7.4	7.4	8.1	7.2	7.5
28	---	---	---	---	---	---	7.8	7.4	7.6	8.2	7.2	7.6
29	---	---	---	---	---	---	7.8	7.4	7.6	8.3	7.2	7.6
30	---	---	---	---	---	---	7.6	7.5	7.5	8.2	7.2	7.6
31	---	---	---	---	---	---	7.6	7.6	7.6	8.3	7.2	7.6
MONTH	---	---	---	---	---	---	7.8	7.0	7.4	8.8	7.1	7.6

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.7	7.3	7.9	7.0	6.9	6.9	7.2	6.7	6.9	7.5	6.8	7.1
2	8.8	7.3	8.0	7.1	6.8	7.0	7.0	6.7	6.8	7.4	6.8	7.1
3	8.4	7.4	7.8	7.0	6.8	---	7.0	6.7	6.8	7.7	6.8	7.2
4	7.7	7.2	7.4	---	---	---	6.8	6.5	6.7	7.8	6.9	7.3
5	7.4	7.1	7.2	---	---	---	6.7	6.5	6.6	8.2	6.9	7.5
6	8.4	7.1	7.6	---	---	---	6.6	6.5	6.5	7.4	6.9	7.1
7	8.2	7.2	7.6	---	---	---	6.9	6.5	6.7	8.0	6.8	7.4
8	8.3	7.2	7.6	---	---	---	6.9	6.7	6.8	7.3	6.8	7.0
9	8.5	7.2	7.8	6.9	6.9	---	7.1	6.7	6.9	7.0	6.8	6.9
10	8.4	7.3	7.8	7.0	6.8	6.9	6.9	6.7	6.8	7.5	6.8	7.1
11	8.3	7.3	7.7	7.4	6.9	7.1	7.0	6.6	6.8	7.6	6.9	7.2
12	8.4	7.2	7.8	7.2	7.0	7.1	7.0	6.7	6.8	7.2	6.8	7.0
13	7.6	7.2	7.3	7.1	7.0	7.1	7.0	6.7	6.9	6.8	6.7	6.8
14	7.3	7.1	7.2	7.2	7.0	7.1	6.8	6.7	6.8	6.8	6.7	---
15	7.2	7.1	7.1	7.2	7.0	7.1	6.6	6.5	6.5	---	---	---
16	7.0	6.8	6.9	7.1	6.8	7.0	6.7	6.5	6.6	---	---	---
17	6.8	6.7	6.8	6.7	6.6	6.7	7.0	6.5	6.7	---	---	---
18	7.1	6.8	6.9	6.8	6.7	6.7	7.0	6.7	6.8	---	---	---
19	7.0	6.9	7.0	6.8	6.7	6.7	7.1	6.7	6.9	---	---	---
20	7.0	6.9	7.0	6.8	6.8	6.8	7.2	6.7	6.9	---	---	---
21	7.1	6.9	7.0	6.9	6.8	6.9	7.2	6.7	6.9	---	---	---
22	7.0	7.0	7.0	7.1	6.8	6.9	7.2	6.8	7.0	6.8	6.7	---
23	7.0	7.0	7.0	7.0	6.9	6.9	7.1	6.7	6.9	6.9	6.7	6.8
24	7.0	6.9	7.0	6.9	6.9	6.9	7.1	6.7	6.9	7.0	6.7	6.9
25	6.9	6.8	6.9	7.0	6.9	7.0	7.1	6.7	6.9	7.1	6.7	6.9
26	7.0	6.8	6.9	7.0	6.9	7.0	7.2	6.7	6.9	6.9	6.7	6.8
27	7.0	6.9	6.9	7.2	6.9	7.0	7.7	6.8	7.2	7.4	6.7	7.0
28	7.1	6.9	7.0	7.2	7.0	7.1	7.1	6.8	6.9	7.6	6.9	7.2
29	---	---	---	---	---	---	7.3	6.7	7.0	7.9	6.9	7.4
30	---	---	---	---	---	---	7.2	6.8	7.0	7.3	6.9	7.1
31	---	---	---	7.1	6.8	---	---	---	---	7.3	6.9	7.1
MONTH	8.8	6.7	7.3	---	---	---	7.7	6.5	6.8	---	---	---

01446700 DELAWARE RIVER AT EASTON, PA. (PHILLIPSBURG, N. J.)--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	7.0	7.1	8.4	7.1	7.8	7.2	6.9	7.1	7.8	6.7	7.3
2	7.1	6.9	7.0	8.2	7.1	7.6	7.5	7.0	7.2	7.7	7.1	7.3
3	7.0	7.0	---	8.3	7.1	7.7	7.4	7.1	7.2	7.7	7.0	7.3
4	---	---	---	8.3	7.1	7.8	7.2	7.0	7.2	7.7	7.0	7.3
5	---	---	---	8.4	7.1	7.8	7.0	6.7	6.9	7.6	6.9	7.3
6	---	---	---	8.4	7.2	7.9	7.3	6.7	7.0	7.2	6.8	7.0
7	---	---	---	8.5	7.2	7.9	8.0	6.9	7.4	7.3	6.8	7.0
8	8.3	7.8	---	8.6	7.2	8.0	8.2	7.0	7.6	6.9	6.6	6.7
9	8.3	7.2	7.8	8.6	7.3	8.0	8.5	7.2	7.8	7.1	6.6	6.8
10	8.4	7.3	7.9	8.5	7.0	7.8	8.6	7.1	7.9	7.4	6.7	7.0
11	8.5	7.2	8.0	7.7	7.1	7.4	8.1	7.2	7.0	7.8	6.7	7.3
12	8.5	7.5	8.1	8.2	7.0	7.6	8.5	7.0	7.8	7.9	6.8	7.3
13	8.5	7.3	7.9	8.3	7.2	7.7	8.3	7.1	7.8	8.0	6.9	7.4
14	7.7	7.1	7.3	---	---	---	8.5	7.4	8.0	8.1	6.9	7.5
15	7.3	7.1	7.2	8.5	8.0	---	8.4	7.5	8.0	8.2	6.9	7.5
16	7.7	7.0	7.3	8.4	7.2	7.9	8.4	7.5	8.0	8.2	7.0	7.6
17	8.0	7.1	7.5	8.3	7.2	7.8	8.6	7.5	8.1	8.2	7.0	7.6
18	8.2	7.1	7.7	8.3	7.1	7.8	8.5	7.5	8.0	8.1	7.0	7.5
19	8.5	7.2	7.9	7.6	7.1	7.3	7.8	6.4	7.1	8.3	7.0	7.5
20	8.5	7.3	8.0	8.0	7.1	7.5	7.5	6.5	7.1	7.9	6.9	7.3
21	8.3	7.3	7.8	8.2	7.1	7.7	7.9	6.5	7.1	7.5	6.9	7.1
22	8.4	7.1	7.8	8.3	7.2	7.8	7.9	6.7	7.4	7.4	7.0	7.2
23	8.5	7.3	8.0	8.4	7.2	7.9	8.0	6.8	7.4	7.2	7.1	7.1
24	8.6	7.5	8.1	8.4	7.2	7.9	7.9	6.9	7.4	7.1	7.0	7.1
25	8.6	7.4	8.1	8.3	7.1	7.7	8.0	6.9	7.5	7.1	7.0	7.1
26	8.6	7.3	8.1	---	---	---	8.0	6.9	7.5	7.3	7.0	7.1
27	8.6	7.4	8.1	---	---	---	7.3	6.9	7.1	7.2	7.0	7.2
28	8.6	7.2	8.0	---	---	---	7.1	6.7	6.9	7.3	7.1	7.2
29	8.0	7.1	7.5	8.4	7.5	---	7.9	6.7	7.4	7.9	7.0	7.3
30	8.4	6.9	7.7	7.9	7.1	7.3	7.0	6.7	6.9	8.0	7.2	7.6
31	---	---	---	8.1	7.0	7.4	7.4	6.7	7.0	---	---	---
MONTH	8.6	6.9	7.7	8.6	7.0	7.7	8.6	6.4	7.4	8.3	6.6	7.3

01457500 DELAWARE RIVER AT RIEGELSVILLE, N. J. (RIEGELSVILLE, PA.)

LOCATION.--Lat 40°35'36", long 75°11'17", Warren County, at suspension bridge 600 ft upstream from Musconetcong River, at Riegelsville.
DRAINAGE AREA.--6,328 sq mi (includes that of Musconetcong River).
PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.
REMARKS.--Discharge records include flow of Musconetcong River. Water-quality records at periods of base flow probably are influenced by inflow from Musconetcong River. Operated as part of USGS-EPA Surveillance Network.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	NITRATE (NO3) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CHLORO-PHYLL A (UG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	TUR-BID-ITY (JTU)	COLOR (PLAT-INUM-COBALT UNITS)
OCT.												
21...	1220	4280	.78	4.0	.23	5.0	.8	.02	166	7.0	2	--
NOV.												
17...	1130	28300	2.2	4.0	.11	5.0	6.4	.12	118	7.1	3	--
DEC.												
16...	1330	7050	.58	3.6	.17	4.0	.0	.04	170	7.3	0	--
JAN.												
26...	1320	5610	1.5	5.0	.15	3.0	1.6	.02	215	7.0	2	--
FEB.												
18...	1300	19200	.55	4.1	.10	5.0	1.4	.02	128	6.7	8	--
MAR.												
18...	1330	36800	.73	2.6	.14	6.0	1.5	.01	100	6.7	9	--
APR.												
22...	1340	15400	.41	2.5	.080	3.5	2.4	.01	122	7.1	2	--
MAY												
20...	1230	13500	4.3	1.0	.14	5.5	1.4	.02	123	6.9	3	--
JUNE												
28...	1140	4720	2.4	3.7	.14	8.0	12	.02	193	7.2	14	--
JULY												
29...	1445	3920	.47	3.8	.15	7.5	2.8	.01	184	7.4	2	5
AUG.												
26...	1140	3970	.81	3.2	.16	4.0	1.6	.01	216	7.0	2	5
SEP.												
30...	1200	6170	.25	5.1	.16	4.0	.6	.01	202	7.6	2	--

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)
JAN.												
26...	--	--	--	--	--	--	--	--	28	--	--	--
AUG.												
26...	50	290	70	19	6.0	12	57	0	31	12	.37	.44

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	OIL AND GREASE (MG/L)	PHENOLS (UG/L)	CYANIDE (CN) (MG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
AUG.												
26...	135	2	72	26	15	0	.01	1	0	19	36	160

01457500 DELAWARE RIVER AT RIEGELSVILLE, N. J. (RIEGELSVILLE, PA.)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	ALDRIN (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	ETHION (UG/L)
JULY 29...	.00	.00	.00	.00	.00	.00	.00	.00
AUG. 26...	.00	.00	.00	.00	.00	.00	.00	.00

DATE	HEPTA-CHLOR (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	METHYL TRI-THION (UG/L)	TRI-THION (UG/L)
JULY 29...	.00	.00	.00	.00	.00	.00	.00
AUG. 26...	.00	.00	.00	.00	.00	.00	.00

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT. 21...	14.0	20.0	216	7.6	9.4	1600	100
NOV. 17...	9.0	12.0	128	7.4	11.4	280	73
DEC. 16...	4.0	2.0	162	7.5	12.0	430	100
JAN. 26...	4.0	10.0	205	7.6	14.1	600	250
FEB. 18...	2.0	12.0	123	6.9	13.7	270	30
MAR. 18...	4.0	10.0	117	7.1	13.0	130	6
APR. 22...	11.0	15.5	113	7.4	10.4	290	73
MAY 20...	18.0	26.0	136	7.4	9.0	5700	227
JUNE 28...	27.5	25.0	190	7.2	7.5	2100	350
JULY 29...	26.0	33.0	180	7.8	8.2	--	2200
AUG. 26...	24.0	29.5	218	7.3	8.4	94	13
SEP. 30...	21.0	28.0	213	7.1	8.7	313	147

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)
(International Hydrological Decade River Station and radiochemical station)

LOCATION.--Lat 40°13'18", long 74°46'42", Mercer County, water-quality recorder located at raw-water intake of the Trenton Water Department and at gaging station, about 600 feet upstream from bridge on Calhoun Street in Trenton.
DRAINAGE AREA.--6,780 sq mi.
PERIOD OF RECORD.--Chemical analyses: October 1944 to September 1971.
Water temperatures: October 1944 to September 1971.
Sediment records: September 1949 to September 1971.
EXTREMES.--1970-71:
Specific conductance: Maximum, 223 micromhos July 12; minimum, 90 micromhos Apr. 7.
Dissolved oxygen: Maximum, 16.9 mg/l Aug. 17; minimum 4.1 mg/l Sept. 12.
Water temperatures: Maximum, 31.0°C July 8, 10.
pH: Maximum, 10.2 July 5-6; minimum, 6.3 Sept. 13.
Sediment concentrations: Maximum daily, 791 mg/l Aug. 28; minimum daily, 2 mg/l on several days during December, January, and April.
Sediment discharge: Maximum daily, 78,700 tons Feb. 28; minimum daily, 29 tons Jan. 3.
Period of record:
Dissolved solids (1944-47, 1950-51, 1953-56, 1958-59): Maximum, 156 mg/l Oct. 1-9, 1953; minimum, 46 mg/l Mar. 21-31, 1945.
Hardness (1944-47, 1949-59): Maximum, 103 mg/l Oct. 1-9, 1953; minimum, 25 mg/l Apr. 1-10, 1950 and Feb. 21-28, 1954.
Specific conductance: Maximum, 400 micromhos Jan. 24, 1959; minimum, 50 micromhos Mar. 19, 1945.
Dissolved oxygen (1962-71): Maximum, 16.9 mg/l Aug. 17, 1971; minimum, 4.1 mg/l Sept. 12, 1971.
Water temperatures: Maximum, 34.0°C June 18, 1957; minimum, freezing point on many days during winter months.
pH (1968-71): Maximum, 10.2 July 5-6, 1971; minimum, 6.3 Jan. 28, 1969 and Sept. 13, 1971.
Sediment concentrations (1949-71): Maximum daily, 1,720 mg/l Nov. 26, 1950; minimum daily, less than 0.5 mg/l Oct. 21, 1952 and Jan. 18, 1970.
Sediment discharge (1949-71): Maximum daily, 1,087,000 tons Aug. 20, 1955; minimum daily, less than 0.5 tons Oct. 21, 1952.
REMARKS.--Operated as part of the USGS-EPA Surveillance Network.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)
OCT.												
13...	3670	1.9	90	10	17	6.7	11	--	1.9	65	0	22
NOV.												
16...	32000	--	--	--	15	4.1	--	2.3	--	26	0	27
DEC.												
14...	8260	4.3	100	70	14	6.5	6.7	--	2.0	40	0	29
JAN.												
19...	5400	--	--	--	19	6.5	--	9.4	--	50	0	30
FEB.												
23...	30100	--	--	--	13	4.3	--	10	--	29	0	27
MAR.												
17...	34600	--	--	--	12	3.5	--	7.6	--	28	0	21
APR.												
28...	10800	1.6	20	43	13	4.1	5.0	--	1.0	36	0	21
MAY												
26...	10500	--	--	--	14	3.8	--	7.0	--	38	0	22
JUNE												
29...	4580	--	--	--	20	6.9	--	5.3	--	52	3	22
JULY												
26...	4190	2.9	50	13	18	6.0	7.5	--	2.2	55	0	26
AUG.												
25...	3920	1.7	80	6	16	6.7	6.0	--	1.9	50	6	12
SEP.												
28...	4770	6.7	240	65	21	7.3	8.8	--	1.9	56	3	31

DATE	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL ACIDITY AS CACO3 (MG/L)
OCT.												
13...	27	.2	--	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	115	--	--
NOV.												
16...	[illegible]	--	--	[illegible]	--	[illegible]	[illegible]	[illegible]	--	--	--	--
DEC.												
14...	11	.1	--	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	98	--	--
JAN.												
19...	12	--	--	[illegible]	--	[illegible]	[illegible]	[illegible]	--	--	[illegible]	--
FEB.												
23...	11	--	--	[illegible]	--	[illegible]	[illegible]	[illegible]	--	--	--	--
MAR.												
17...	[illegible]	--	--	[illegible]	--	[illegible]	[illegible]	[illegible]	--	--	--	--
APR.												
28...	[illegible]	[illegible]	--	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	--
MAY												
26...	[illegible]	--	--	[illegible]	--	[illegible]	[illegible]	[illegible]	--	--	--	--
JUNE												
29...	[illegible]	--	--	[illegible]	--	[illegible]	[illegible]	[illegible]	--	--	--	--
JULY												
26...	[illegible]	.1	--	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	--
AUG.												
25...	[illegible]	.2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	5	0
SEP.												
28...	[illegible]	.2	--	[illegible]	--	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	--	--

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CHLOROPHYLL A (UG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	PHENOLS (UG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.											
13...	70	33	263	7.7	1	1	--	1.0	4.0	--	.01
NOV.											
16...	55	35	185	7.1	7	1	1.4	2.5	7.0	--	.01
DEC.											
14...	62	29	170	7.3	2	15	1.6	2.3	6.5	--	.01
JAN.											
19...	74	33	208	7.3	4	3	.8	.8	2.0	--	.01
FEB.											
23...	50	26	142	6.7	5	40	2.8	2.0	7.0	--	.03
MAR.											
17...	45	22	122	7.3	3	10	1.2	3.3	5.0	--	.01
APR.											
28...	50	20	137	7.8	6	2	1.2	7.5	4.5	--	.01
MAY											
26...	51	20	160	6.8	5	4	2.7	2.0	5.0	--	.00
JUNE											
29...	79	36	197	9.0	3	17	5.1	35	20	--	.02
JULY											
26...	70	25	202	7.6	6	3	2.9	10	6.0	--	.02
AUG.											
25...	68	20	185	9.3	4	2	2.0	5.1	6.0	8	.01
SEP.											
28...	82	37	211	7.1	5	4	.7	3.9	9.0	--	.01

DATE	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	CYANIDE (CN) (MG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	OIL AND GREASE (MG/L)
OCT.												
13...	--	0	0	--	0	1	--	--	5	.0	17	--
AUG.												
25...	10	1	--	1	--	--	0	.00	0	--	25	18

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON (UG/L)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)
AUG.												
25...	.00	.00	E250	.00	49	.00	61	.00	23	.00	.01	21
SEP.												
28...	.00	--	--	.00	--	.00	--	.00	--	.00	.00	--

DATE	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	ETHION (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	PARATHION (UG/L)	TRITHION (UG/L)	METHYL TRITHION (UG/L)
AUG.												
25...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP.												
28...	.00	--	.00	.00	--	.00	--	.00	.00	.00	.00	.00

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)
JAN. 19...	--	--	--	.5	<.1	1.4	<.4	2.8	.5	2.3	.5
JULY 26...	--	--	--	.5	<.1	1.4	<.4	4.3	1.2	3.4	1.1
AUG. 25...	.00	.00	.00	.6	<.1	1.8	<.4	3.2	<.4	2.5	<.4
SEP. 28...	.00	.00	.00	--	--	--	--	--	--	--	--

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DEPTH (FT)	PER-CENT OF TOTAL DEPTH	TEMP-ERATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT. 13...	0900	4.0	50	20.0	21.0	--	8.0	8.2	500	6
NOV. 16...	1345	4.0	50	9.9	13.2	200	7.8	10.2	1650	--
DEC. 14...	1230	5.0	50	4.1	--	165	8.4	12.4	212	0
JAN. 19...	1400	4.0	50	.0	-9.0	182	7.8	--	170	2
FEB. 23...	1530	4.0	50	3.9	4.6	155	7.2	12.8	3750	1040
MAR. 17...	0800	4.0	50	6.3	12.0	--	--	12.4	--	--
APR. 28...	0900	3.0	50	10.5	14.0	160	8.1	11.2	700	20
MAY 26...	0900	3.0	50	18.7	20.5	180	7.0	9.2	400	24
JUNE 29...	1415	2.5	50	26.5	27.6	200	8.8	11.0	--	18
JULY 26...	0830	2.0	50	26.1	26.7	230	7.8	7.8	18600	30
AUG. 25...	1700	2.5	50	24.9	27.0	182	9.6	12.4	0	0
SEP. 28...	1600	2.0	50	18.5	20.0	--	7.0	8.8	6500	360

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

(METHODS OF ANALYSIS: B, BOTTOM WITHDRAWAL TUBE; C, CHEMICALLY DISPERSED; N, IN NATIVE WATER; P, PIPET; S, SIEVE; V, VISUAL ACCUMULATION TUBE; W, IN DISTILLED WATER)

DATE	TIME	WATER TEMP-PERA-TURE (C)	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	PARTICLE SIZE PERCENT FINER THAN THE SIZE (IN MILLIMETERS) INDICATED .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	METHOD OF ANALY-SIS
OCT 23, 1970	0500	16	22600	236	14400	26	38	52	67	82	96	100	--	--	--	--	SCBW
OCT 23......	1700	16	27200	282	20700	40	45	58	74	86	97	100	--	--	--	--	SCBW
NOV 13......	1700		31100	128	10700	--	52	63	76	87	96	99	100	--	--	--	SCBW
MAR 1, 1971	1700	5	40700	91	10000	18	30	42	56	71	87	96	99	100	--	--	SCBW
APR 7......	1700	7	36200	166	16200	23	34	45	64	82	97	99	100	--	--	--	SCBW
AUG 2......	1700	26	12200	136	4480	29	43	62	79	92	100	--	--	--	--	--	SCBW
AUG 3......	1200		10800	167	4870	40	57	73	88	95	99	100	--	--	--	--	SCBW
SEP 13......	1200		25000	337	22700	28	37	50	66	82	97	100	--	--	--	--	SCBW

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	166	160	162	159	155	157	210	201	205
2	---	---	---	167	158	162	156	152	154	208	203	206
3	---	---	---	158	149	153	157	153	155	206	198	200
4	---	---	---	162	150	155	160	156	157	209	197	201
5	---	---	---	163	158	160	170	158	165	213	167	191
6	---	---	---	172	164	169	172	166	168	195	165	184
7	---	---	---	171	162	166	168	158	162	---	---	---
8	---	---	---	163	160	162	158	155	156	---	---	---
9	---	---	---	162	161	162	163	157	160	---	---	---
10	---	---	---	163	160	161	174	162	168	---	---	---
11	---	---	---	167	162	164	176	172	173	---	---	---
12	---	---	---	172	165	168	174	171	172	---	---	---
13	---	---	---	172	149	162	---	---	---	---	---	---
14	---	---	---	148	139	143	177	174	---	---	---	---
15	---	---	---	156	136	145	182	174	177	---	---	---
16	---	---	---	161	139	154	190	180	186	---	---	---
17	---	---	---	---	---	---	188	162	174	---	---	---
18	---	---	---	---	---	---	206	169	181	---	---	---
19	---	---	---	---	---	---	202	192	197	---	---	---
20	---	---	---	---	---	---	194	190	191	---	---	---
21	---	---	---	---	---	---	196	184	187	---	---	---
22	---	---	---	---	---	---	190	184	186	---	---	---
23	---	---	---	---	---	---	189	183	186	---	---	---
24	---	---	---	129	118	123	191	182	186	---	---	---
25	---	---	---	130	127	129	206	191	199	---	---	---
26	---	---	---	130	128	129	208	198	203	---	---	---
27	---	---	---	130	127	129	198	188	191	---	---	---
28	---	---	---	135	127	131	199	188	193	---	---	---
29	---	---	---	139	134	137	206	198	201	---	---	---
30	157	150	154	155	141	148	218	198	201	---	---	---
31	161	156	158	---	---	---	218	208	211	---	---	---
MONTH	---	---	---	---	---	---	218	152	179	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	147	132	139
2	---	---	---	133	122	130	153	142	---	133	130	131
3	---	---	---	---	---	---	157	103	134	140	133	137
4	---	---	---	136	132	---	157	100	121	143	141	142
5	---	---	---	141	130	136	104	91	99	147	134	---
6	---	---	---	152	139	144	107	93	97	140	134	138
7	---	---	---	147	138	---	122	90	---	141	138	140
8	---	---	---	150	145	---	---	---	---	145	139	142
9	---	---	---	151	142	146	---	---	---	155	143	149
10	---	---	---	---	---	---	---	---	---	155	150	152
11	---	---	---	---	---	---	---	---	---	154	143	148
12	---	---	---	---	---	---	---	---	---	146	143	144
13	---	---	---	---	---	---	---	---	---	145	140	143
14	---	---	---	---	---	---	---	---	---	163	139	152
15	---	---	---	---	---	---	---	---	---	163	111	131
16	---	---	---	---	---	---	---	---	---	116	108	112
17	---	---	---	---	---	---	---	---	---	114	107	111
18	---	---	---	---	---	---	---	---	---	125	111	119
19	---	---	---	---	---	---	---	---	---	127	110	119
20	---	---	---	---	---	---	---	---	---	121	105	117
21	---	---	---	---	---	---	---	---	---	118	111	116
22	---	---	---	---	---	---	132	129	130	130	119	126
23	---	---	---	---	---	---	132	127	129	132	129	---
24	---	---	---	---	---	---	131	128	130	---	---	---
25	---	---	---	---	---	---	135	131	132	---	---	---
26	---	---	---	---	---	---	141	135	138	152	150	151
27	---	---	---	---	---	---	147	141	143	158	149	153
28	---	---	---	---	---	---	150	136	144	155	149	153
29	---	---	---	---	---	---	145	134	141	161	145	154
30	---	---	---	---	---	---	151	145	148	168	149	---
31	---	---	---	---	---	---	---	---	---	162	150	---
MONTH	---	---	---	---	---	---	---	---	---	168	105	137

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	170	157	---	199	194	197	206	186	198	175	161	169
2	157	139	---	201	197	199	184	159	165	185	175	179
3	159	157	---	203	195	200	163	157	160	193	179	191
4	175	158	166	196	191	193	---	---	---	203	190	---
5	176	165	171	202	192	195	170	147	166	215	197	---
6	180	162	172	201	195	197	---	---	---	217	197	---
7	184	162	174	197	192	194	---	---	---	---	---	---
8	194	174	188	192	164	183	---	---	---	218	216	---
9	195	189	192	196	172	188	---	---	---	218	211	215
10	196	191	193	199	189	195	171	142	---	214	207	210
11	198	194	---	216	198	209	186	149	161	217	203	209
12	---	---	---	223	191	212	198	167	188	197	146	175
13	---	---	---	215	197	205	201	152	174	159	109	132
14	214	209	---	195	190	193	199	179	---	---	---	---
15	215	213	214	200	195	197	---	---	---	186	174	---
16	221	216	219	204	199	201	---	---	---	187	180	183
17	216	199	206	200	197	199	---	---	---	189	175	185
18	198	185	193	204	191	201	219	174	206	194	187	191
19	187	180	185	203	180	---	214	205	210	193	188	189
20	187	179	182	---	---	---	209	190	199	203	190	196
21	195	187	191	195	185	---	207	190	201	204	195	199
22	195	157	186	195	183	190	208	195	203	222	204	211
23	194	185	190	---	---	---	209	184	203	216	196	---
24	202	194	198	---	---	---	210	194	203	---	---	---
25	206	196	201	---	---	---	199	189	195	---	---	---
26	208	201	204	---	---	---	195	180	194	---	---	---
27	209	172	197	---	---	---	---	---	---	---	---	---
28	202	188	199	---	---	---	---	---	---	---	---	---
29	191	178	188	---	---	---	---	---	---	---	---	---
30	198	188	195	---	---	---	153	151	---	---	---	---
31	---	---	---	192	173	---	160	152	155	---	---	---
MONTH	221	139	---	---	---	---	---	---	---	---	---	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	10.2	7.1	9.0	---	---	---
2	---	---	---	---	---	---	10.1	6.5	8.4	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	12.0	10.8	11.4	---	---	---
6	---	---	---	---	---	---	11.6	11.0	11.3	---	---	---
7	---	---	---	---	---	---	12.1	11.0	11.4	---	---	---
8	---	---	---	---	---	---	12.1	11.6	11.8	---	---	---
9	---	---	---	---	---	---	11.7	11.2	11.5	---	---	---
10	---	---	---	---	---	---	11.5	11.0	11.3	---	---	---
11	---	---	---	---	---	---	11.0	9.8	10.5	---	---	---
12	---	---	---	---	---	---	10.8	9.2	9.5	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	12.6	11.8	12.1	---	---	---	---	---	---
29	---	---	---	12.1	11.1	11.5	---	---	---	---	---	---
30	10.2	8.5	9.4	11.1	10.1	10.5	---	---	---	---	---	---
31	9.5	7.9	8.5	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	14.4	11.4	13.0
2	---	---	---	---	---	---	12.3	11.5	---	13.8	11.2	12.2
3	---	---	---	---	---	---	13.6	11.6	12.6	13.6	10.8	12.4
4	---	---	---	13.8	---	---	13.5	12.1	13.1	13.3	10.9	12.6
5	---	---	---	14.7	13.6	14.2	14.0	13.2	13.6	14.0	10.3	12.8
6	---	---	---	14.9	14.4	14.7	14.1	13.5	13.9	11.1	9.7	10.4
7	---	---	---	14.5	13.4	13.8	---	---	---	14.2	9.4	11.7
8	---	---	---	14.2	---	---	---	---	---	10.6	9.3	9.9
9	---	---	---	13.2	12.4	12.8	---	---	---	11.1	8.8	9.7
10	---	---	---	---	---	---	---	---	---	12.4	8.8	10.5
11	---	---	---	---	---	---	---	---	---	12.0	9.1	10.5
12	---	---	---	---	---	---	---	---	---	10.5	8.6	9.5
13	---	---	---	---	---	---	---	---	---	8.9	7.8	8.3
14	---	---	---	---	---	---	---	---	---	8.6	7.8	8.2
15	---	---	---	---	---	---	---	---	---	9.0	7.9	8.5
16	---	---	---	---	---	---	---	---	---	9.6	8.8	9.2
17	---	---	---	---	---	---	---	---	---	9.7	8.6	9.3
18	---	---	---	---	---	---	---	---	---	10.2	8.8	---
19	---	---	---	---	---	---	---	---	---	9.8	8.9	9.4
20	---	---	---	---	---	---	---	---	---	9.8	8.4	9.0
21	---	---	---	---	---	---	---	---	---	8.7	7.2	8.1
22	---	---	---	---	---	---	---	---	---	7.7	6.5	7.1
23	---	---	---	---	---	---	---	---	---	7.7	6.8	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	10.4	8.6	---
27	---	---	---	---	---	---	---	---	---	9.8	8.0	8.8
28	---	---	---	---	---	---	---	---	---	10.4	7.2	8.7
29	---	---	---	---	---	---	14.5	11.6	12.7	10.5	8.6	9.5
30	---	---	---	---	---	---	14.5	11.8	13.0	9.6	8.3	8.9
31	---	---	---	---	---	---	---	---	---	10.2	8.2	9.1
MONTH	---	---	---	---	---	---	---	---	---	14.4	6.5	9.9

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.6	7.2	8.0	12.8	6.7	9.5	9.7	7.3	8.2	6.6	5.0	5.9
2	7.2	6.3	6.9	13.1	6.6	9.8	7.7	6.9	7.3	7.2	4.9	5.9
3	8.7	5.9	7.2	12.6	7.5	9.4	7.5	7.1	7.3	9.9	4.4	6.3
4	7.7	6.9	7.1	11.2	7.2	8.8	---	---	---	10.2	6.0	7.9
5	8.5	6.8	7.6	11.3	7.8	8.9	7.2	6.2	6.8	11.2	5.7	8.1
6	9.4	7.0	8.0	11.1	7.9	8.9	8.4	6.5	7.2	10.9	5.4	7.8
7	10.4	7.0	8.5	11.1	7.2	8.8	---	---	---	8.9	4.7	6.3
8	7.7	5.1	6.1	10.8	7.0	8.4	---	---	---	10.8	6.7	8.1
9	8.3	4.8	6.6	10.9	6.7	8.7	---	---	---	10.5	5.2	7.3
10	11.4	7.1	9.1	10.9	6.3	8.7	11.9	9.4	---	9.4	5.1	6.8
11	12.1	6.8	9.2	9.2	6.1	7.3	13.5	7.7	9.7	5.6	4.4	5.0
12	---	---	---	11.4	5.6	8.0	16.0	7.3	10.9	4.7	4.1	4.3
13	---	---	---	11.8	6.3	8.8	15.1	7.8	10.9	6.0	4.7	5.2
14	9.7	7.9	---	10.3	7.1	8.3	16.0	7.3	11.1	---	---	---
15	8.9	7.2	7.9	10.8	7.1	8.2	15.8	7.5	10.9	7.7	5.4	---
16	9.0	7.0	7.9	10.8	7.6	8.8	16.1	7.1	11.0	7.4	6.9	7.1
17	10.2	7.2	8.6	10.9	7.0	8.6	16.9	7.2	11.2	7.1	6.8	7.0
18	11.3	7.8	9.0	11.1	6.7	8.3	15.2	7.9	11.2	6.4	5.9	6.1
19	12.4	7.7	9.4	9.5	6.6	7.9	14.3	7.5	9.8	6.5	6.1	6.3
20	13.4	7.5	10.1	10.5	5.8	7.8	10.5	5.1	7.5	7.2	6.6	6.9
21	13.2	7.6	10.1	11.7	5.5	8.7	11.5	5.0	7.4	7.7	6.9	7.2
22	14.5	7.5	10.2	11.8	7.0	8.5	---	---	---	7.9	7.0	7.4
23	13.1	8.4	10.6	---	---	---	---	---	---	7.6	6.7	7.3
24	13.5	7.9	10.5	---	---	---	11.8	7.1	---	7.7	6.7	7.2
25	14.0	8.8	11.3	---	---	---	12.4	6.1	8.8	7.9	6.5	7.1
26	13.9	9.0	11.4	---	---	---	11.7	6.5	8.7	7.2	6.6	6.8
27	14.5	8.1	11.0	---	---	---	---	---	---	8.0	6.6	7.4
28	14.5	8.6	11.3	---	---	---	---	---	---	7.8	7.0	7.3
29	12.0	8.7	10.2	---	---	---	---	---	---	9.0	7.0	7.8
30	13.0	8.0	10.4	---	---	---	7.4	7.0	---	8.8	7.0	7.7
31	---	---	---	7.6	5.6	---	6.9	6.0	6.5	---	---	---
MONTH	14.5	4.8	9.0	---	---	---	---	---	---	11.2	4.1	6.8

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	13.0	11.5	12.0	8.0	7.0	7.5	1.5	1.0	1.5
2	---	---	---	12.5	12.0	12.5	8.5	7.5	8.0	1.5	1.0	1.0
3	---	---	---	13.0	11.5	12.0	8.5	7.5	8.0	2.5	0.5	1.5
4	---	---	---	14.0	12.0	12.5	8.5	7.5	8.0	2.5	1.0	2.0
5	---	---	---	13.5	10.5	11.5	7.0	6.5	7.0	3.0	2.0	2.5
6	---	---	---	11.0	10.0	10.5	6.5	5.0	5.5	3.0	2.5	3.0
7	---	---	---	11.0	10.0	10.5	4.5	3.5	4.0	3.0	2.5	---
8	---	---	---	11.5	10.0	10.5	4.0	3.0	3.5	---	---	---
9	---	---	---	11.0	10.0	10.5	4.5	3.5	4.0	---	---	---
10	---	---	---	11.5	10.5	11.0	5.0	4.0	4.5	---	---	---
11	---	---	---	14.5	11.0	13.0	4.5	4.0	4.0	---	---	---
12	---	---	---	16.0	14.0	15.0	4.5	4.0	4.0	---	---	---
13	---	---	---	16.0	12.5	14.0	---	---	---	---	---	---
14	---	---	---	12.5	11.5	12.0	4.0	3.5	---	---	---	---
15	---	---	---	11.5	11.0	11.5	4.0	3.5	3.5	---	---	---
16	---	---	---	11.0	10.0	10.5	4.0	3.5	3.5	---	---	---
17	---	---	---	---	---	---	4.0	3.5	4.0	---	---	---
18	---	---	---	---	---	---	4.5	3.5	4.0	---	---	---
19	---	---	---	---	---	---	4.5	3.5	4.0	---	---	---
20	---	---	---	---	---	---	5.0	4.0	4.5	---	---	---
21	---	---	---	---	---	---	4.0	3.5	3.5	---	---	---
22	---	---	---	---	---	---	3.5	3.0	3.5	---	---	---
23	15.5	---	---	---	---	---	3.0	2.5	3.0	---	---	---
24	15.0	14.0	14.5	7.0	6.0	6.5	3.0	2.5	2.5	---	---	---
25	14.5	14.0	14.5	6.0	5.0	5.5	2.5	2.5	2.5	---	---	---
26	14.0	14.0	14.0	5.5	4.5	5.0	2.5	1.5	2.0	---	---	---
27	14.0	13.0	13.5	6.5	5.0	6.0	2.0	1.5	1.5	---	---	---
28	13.0	12.0	12.5	6.5	5.5	6.0	1.5	0.5	1.0	---	---	---
29	12.5	11.5	12.0	7.0	6.5	7.0	3.5	0.5	1.5	---	---	---
30	13.0	11.5	12.0	8.0	7.5	8.0	3.5	1.0	2.0	---	---	---
31	12.5	11.5	12.0	---	---	---	2.0	1.0	2.0	---	---	---
MONTH	---	---	---	---	---	---	8.5	0.5	4.0	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	13.0	11.5	12.5
2	---	---	---	6.0	5.0	5.5	9.0	9.0	---	13.0	12.0	12.5
3	---	---	---	---	---	---	10.0	8.0	9.0	12.0	11.0	11.5
4	---	---	---	2.0	2.0	---	9.0	8.0	8.5	13.0	10.5	12.0
5	---	---	---	2.0	1.0	1.5	8.5	7.5	8.0	14.5	12.0	13.0
6	---	---	---	2.5	0.5	1.5	7.5	5.5	7.0	14.0	13.5	13.5
7	---	---	---	3.5	3.0	3.5	6.5	5.0	5.5	15.5	13.0	14.5
8	---	---	---	4.5	2.5	3.5	7.5	5.5	---	15.0	13.5	14.0
9	---	---	---	4.0	2.0	---	---	---	---	14.0	13.0	13.5
10	---	---	---	---	---	---	---	---	---	15.5	12.5	14.0
11	---	---	---	---	---	---	---	---	---	15.5	13.5	14.5
12	---	---	---	---	---	---	---	---	---	16.0	15.5	16.0
13	---	---	---	---	---	---	10.5	8.0	9.5	17.0	15.0	16.0
14	---	---	---	---	---	---	11.0	9.5	10.5	16.0	14.0	15.0
15	---	---	---	---	---	---	---	---	---	15.5	14.0	15.0
16	---	---	---	---	---	---	---	---	---	14.5	13.5	13.5
17	---	---	---	---	---	---	---	---	---	15.0	13.0	14.0
18	---	---	---	---	---	---	---	---	---	17.0	15.0	---
19	---	---	---	---	---	---	---	---	---	19.0	16.0	17.5
20	---	---	---	---	---	---	13.0	13.0	---	19.5	18.0	18.5
21	---	---	---	---	---	---	14.0	12.5	13.0	19.0	18.0	18.5
22	---	---	---	---	---	---	13.0	12.5	13.0	19.0	17.5	18.0
23	---	---	---	---	---	---	13.5	12.0	12.5	17.5	16.5	---
24	---	---	---	---	---	---	13.5	12.0	12.5	---	---	---
25	---	---	---	---	---	---	11.5	11.0	11.5	---	---	---
26	---	---	---	---	---	---	11.0	9.5	10.5	---	---	---
27	---	---	---	---	---	---	11.5	9.5	10.5	18.5	17.5	18.0
28	---	---	---	---	---	---	11.5	11.0	11.0	18.0	16.5	17.5
29	---	---	---	---	---	---	12.5	11.5	12.0	18.5	17.0	17.5
30	---	---	---	---	---	---	12.5	11.5	12.0	17.5	17.0	17.5
31	---	---	---	---	---	---	---	---	---	18.5	17.0	17.5
MONTH	---	---	---	---	---	---	---	---	---	19.5	10.5	15.0

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	17.0	18.5	30.5	26.5	28.0	28.0	25.5	26.5	22.5	21.0	21.5
2	19.0	18.0	18.5	29.5	27.0	28.0	26.0	24.5	25.0	22.0	20.5	21.5
3	20.5	18.5	19.5	29.0	25.5	27.0	25.0	23.5	24.0	23.5	20.5	22.0
4	22.0	19.5	21.0	29.5	25.0	27.0	---	---	---	24.5	21.5	23.0
5	23.5	21.5	22.5	29.5	24.5	26.5	24.5	23.5	24.0	26.5	22.5	24.5
6	23.5	22.0	23.0	29.5	25.0	27.0	23.5	22.0	23.0	27.5	24.0	26.0
7	25.5	22.5	24.0	30.0	26.0	28.0	---	---	---	27.5	24.5	26.0
8	24.0	22.5	23.5	31.0	26.0	28.5	---	---	---	27.5	24.5	26.0
9	25.0	23.5	24.0	30.5	27.0	29.0	---	---	---	29.0	25.0	27.0
10	26.0	23.0	24.5	31.0	27.0	28.5	28.0	26.5	---	28.0	26.0	27.0
11	25.5	23.0	---	28.0	25.0	26.5	28.5	25.5	26.5	26.0	24.0	25.0
12	---	---	---	28.0	23.5	25.5	27.5	25.0	26.0	24.5	23.0	24.0
13	---	---	---	28.0	24.0	26.0	28.0	24.0	25.5	23.5	21.0	22.0
14	23.5	21.5	---	27.0	24.5	25.5	28.5	24.0	26.0	22.5	20.0	21.5
15	21.5	19.5	20.5	28.5	24.0	26.0	28.0	24.0	26.0	22.0	20.0	21.5
16	21.5	18.5	20.0	27.0	24.5	26.0	28.0	24.5	26.0	22.0	20.5	21.5
17	22.5	19.5	21.0	28.5	24.5	26.0	29.0	24.0	26.5	22.0	21.5	21.5
18	23.0	20.0	21.5	28.5	25.0	26.5	28.0	24.5	26.5	22.0	21.0	21.5
19	25.0	21.0	22.5	26.0	25.0	25.5	27.0	25.0	26.0	21.5	21.0	21.0
20	26.5	22.5	24.5	26.5	24.0	25.0	27.5	24.5	26.0	21.5	20.0	21.0
21	26.0	24.0	25.0	26.5	23.0	24.5	29.0	25.5	27.0	22.0	20.5	21.0
22	28.5	24.0	26.0	28.0	23.0	25.0	28.5	25.5	27.0	21.0	20.0	20.5
23	28.5	25.5	27.0	---	---	---	27.5	25.0	26.0	20.0	19.0	19.5
24	29.5	25.5	27.5	---	---	---	26.0	23.0	24.0	19.5	18.5	19.0
25	29.5	26.5	28.0	---	---	---	26.0	21.5	23.5	19.0	17.0	18.0
26	30.5	27.0	28.5	---	---	---	25.5	22.5	23.5	18.0	16.5	17.5
27	30.5	27.0	29.0	---	---	---	23.5	20.0	21.5	17.0	16.5	16.5
28	30.0	27.0	28.5	---	---	---	20.5	19.5	20.0	17.0	16.5	16.5
29	27.5	26.0	26.5	---	---	---	21.5	19.5	20.5	19.0	16.5	17.5
30	28.0	25.0	26.5	---	---	---	22.0	20.0	21.0	19.5	17.5	18.5
31	---	---	---	27.5	24.5	---	22.0	21.0	21.5	---	---	---
MONTH	30.5	17.0	24.0	---	---	---	29.0	19.5	24.5	29.0	16.5	21.5

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.9	7.1	7.4	---	---	---
2	---	---	---	---	---	---	7.4	7.1	7.2	---	---	---
3	---	---	---	---	---	---	7.2	7.1	7.1	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	7.2	7.1	---	---	---	---	---	---	---
24	---	---	---	7.6	7.0	7.3	---	---	---	---	---	---
25	---	---	---	7.8	7.5	7.7	---	---	---	---	---	---
26	---	---	---	8.1	7.8	7.9	---	---	---	---	---	---
27	---	---	---	7.8	7.8	7.9	---	---	---	---	---	---
28	---	---	---	8.4	7.5	8.0	---	---	---	---	---	---
29	---	---	---	8.2	7.2	7.7	---	---	---	---	---	---
30	---	---	---	8.6	7.7	7.9	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DELAWARE RIVER BASIN

01463500 DELAWARE RIV R AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	8.5	7.0	7.9
2	---	---	---	---	---	---	---	---	---	8.6	7.5	7.9
3	---	---	---	---	---	---	---	---	---	8.2	7.1	7.8
4	---	---	---	---	---	---	---	---	---	8.9	7.2	8.0
5	---	---	---	---	---	---	---	---	---	9.1	7.4	8.1
6	---	---	---	---	---	---	---	---	---	8.5	7.7	8.1
7	---	---	---	---	---	---	---	---	---	8.7	7.3	8.1
8	---	---	---	---	---	---	---	---	---	7.8	7.0	7.4
9	---	---	---	---	---	---	---	---	---	8.1	6.9	7.3
10	---	---	---	---	---	---	---	---	---	8.7	7.0	7.8
11	---	---	---	---	---	---	---	---	---	8.3	7.2	7.7
12	---	---	---	---	---	---	---	---	---	7.6	7.1	7.2
13	---	---	---	---	---	---	---	---	---	8.3	7.0	7.4
14	---	---	---	---	---	---	---	---	---	7.9	6.6	7.2
15	---	---	---	---	---	---	---	---	---	7.2	6.5	6.9
16	---	---	---	---	---	---	---	---	---	8.0	6.5	7.2
17	---	---	---	---	---	---	---	---	---	8.7	6.4	7.0
18	---	---	---	---	---	---	---	---	---	7.3	6.6	6.9
19	---	---	---	---	---	---	---	---	---	7.9	6.6	7.2
20	---	---	---	---	---	---	---	---	---	7.8	7.2	7.6
21	---	---	---	---	---	---	---	---	---	7.7	7.1	7.4
22	---	---	---	---	---	---	---	---	---	7.5	7.0	7.3
23	---	---	---	---	---	---	---	---	---	7.5	7.0	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	8.7	7.9	---
27	---	---	---	---	---	---	---	---	---	8.1	7.3	7.7
28	---	---	---	---	---	---	---	---	---	8.2	7.5	7.7
29	---	---	---	---	---	---	8.2	7.3	7.6	8.4	7.4	7.8
30	---	---	---	---	---	---	8.1	6.9	7.4	8.4	7.4	7.9
31	---	---	---	---	---	---	---	---	---	8.9	8.1	8.4
MONTH	---	---	---	---	---	---	---	---	---	9.1	6.4	7.6

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.1	7.5	7.8	9.8	8.3	9.1	8.2	7.2	7.6	---	---	---
2	8.4	7.8	8.0	9.7	8.2	9.1	7.3	7.1	7.2	---	---	---
3	8.4	8.0	8.2	10.0	8.6	9.4	7.3	7.1	7.2	---	---	---
4	8.0	7.1	7.6	10.1	8.8	9.5	---	---	---	9.2	7.6	8.4
5	8.1	7.5	7.7	10.2	9.2	9.7	---	---	---	9.4	7.7	8.6
6	8.9	7.6	8.2	10.2	9.2	9.7	---	---	---	9.5	7.8	8.7
7	9.0	8.0	8.5	10.0	9.1	9.6	---	---	---	9.3	7.8	8.6
8	8.1	7.5	7.6	10.0	9.0	9.6	---	---	---	9.0	7.6	8.2
9	8.3	7.3	7.7	9.9	9.0	9.5	---	---	---	9.3	7.2	8.2
10	9.5	7.8	8.7	9.7	8.6	9.3	9.4	8.9	---	9.3	7.3	8.2
11	9.6	8.3	---	9.2	8.2	8.8	9.5	8.2	8.8	7.8	6.7	7.3
12	---	---	---	9.5	7.7	8.6	9.6	7.8	8.8	7.1	6.5	6.8
13	---	---	---	9.8	8.1	9.1	9.6	8.3	9.0	6.7	6.3	6.5
14	9.0	8.2	---	9.7	8.7	9.3	9.7	8.4	9.1	6.7	6.5	6.6
15	8.5	7.8	8.1	9.9	8.4	9.3	9.7	8.4	9.1	7.0	6.4	6.8
16	8.3	7.7	7.9	9.8	8.8	9.4	9.8	8.4	9.1	7.0	6.9	7.0
17	8.6	7.6	8.0	9.7	8.7	9.2	10.0	8.8	9.4	7.1	6.9	7.0
18	8.9	7.7	8.2	9.7	8.4	9.2	9.8	8.9	9.4	7.0	7.0	7.0
19	9.3	7.7	8.5	9.1	8.2	8.7	9.1	8.2	8.7	7.1	7.0	7.0
20	9.7	8.1	8.9	9.2	7.7	8.5	9.2	8.2	8.7	8.0	7.1	7.4
21	9.6	8.4	9.1	9.3	7.7	8.6	9.3	8.0	8.7	8.0	7.2	7.4
22	9.8	8.3	9.1	9.5	7.6	8.7	9.1	7.7	8.4	7.4	7.2	7.3
23	10.0	8.9	9.5	---	---	---	8.9	7.2	8.0	7.3	7.1	7.2
24	10.1	8.9	9.5	---	---	---	9.6	7.5	8.3	7.5	7.0	7.2
25	10.1	9.2	9.7	---	---	---	9.7	8.1	9.0	7.8	7.2	7.4
26	10.1	9.3	9.7	---	---	---	9.6	8.2	8.9	7.5	7.2	7.3
27	10.1	9.1	9.7	---	---	---	8.4	6.9	7.4	7.5	7.2	7.3
28	10.1	9.1	9.6	---	---	---	7.6	6.9	7.1	8.1	7.2	7.5
29	9.9	9.2	9.5	---	---	---	7.4	7.1	7.3	8.2	7.3	7.7
30	9.7	8.6	9.2	---	---	---	8.3	7.3	7.6	8.5	7.3	7.7
31	---	---	---	8.2	7.2	---	---	---	---	---	---	---
MONTH	10.1	7.1	8.6	---	---	---	---	---	---	9.5	6.3	7.5

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4300	16	186	8000	18	389	10400	5	140
2	3680	18	179	7570	25	511	9910	13	348
3	3390	20	183	7110	10	192	9210	13	323
4	3460	15	140	6660	8	144	8700	2	47
5	3580	10	97	9350	74	1930	8790	8	190
6	3970	6	64	9910	34	910	8810	11	262
7	4070	8	88	8840	32	764	8710	2	47
8	3930	6	64	7890	8	170	8670	4	87
9	3930	5	53	7150	5	97	7330	4	79
10	4080	6	66	6580	6	107	7180	7	136
11	3850	6	62	6960	6	113	7260	15	295
12	3770	6	61	14500	48	2180	7880	6	128
13	3670	5	50	29600	117	9180	9040	15	366
14	4090	6	66	35000	43	4060	8260	7	156
15	4440	11	132	34400	42	3900	7330	13	257
16	7750	45	942	32000	38	3280	7490	12	243
17	7760	30	629	28200	19	1450	12300	85	2900
18	7700	29	603	24900	18	1210	10600	43	1230
19	6490	20	350	20000	11	594	8790	45	1070
20	5200	10	140	18100	11	538	8450	15	342
21	4740	6	77	19100	11	567	8420	3	68
22	6110	27	523	19800	9	481	8610	3	70
23	24900	270	17400	19700	10	532	9860	6	147
24	31200	44	3710	18000	10	486	8270	4	89
25	30000	38	3080	15700	8	339	7820	2	42
26	19200	22	1140	14800	7	280	7640	3	62
27	14600	21	828	13700	6	222	7090	2	38
28	12200	32	1050	12200	12	395	6480	3	52
29	9980	27	728	10500	20	567	6160	4	67
30	8990	14	340	10400	15	421	5870	3	48
31	7860	10	212	--	--	--	6190	5	84
TOTAL	262890	--	33243	476620	--	36009	256060	--	9413

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5690	4	61	5200	6	84	38800	85	8900
2	5930	7	112	4100	66	731	37700	72	7330
3	5420	2	29	4900	70	926	33400	52	4690
4	5650	2	31	5700	55	846	32200	50	4350
5	13500	50	1820	6000	3	49	26600	20	1440
6	15500	30	1260	6200	6	100	23300	10	629
7	12300	14	465	6400	6	104	25800	21	1460
8	10700	5	144	7000	90	1700	28100	28	2120
9	10700	11	318	8000	80	1730	24900	22	1480
10	10200	14	386	7000	20	378	21700	11	644
11	8780	2	47	6600	7	125	18200	10	491
12	8380	3	68	6970	5	94	17100	3	139
13	8610	2	46	15800	55	2350	16800	14	635
14	7960	3	64	37400	90	9090	16900	10	456
15	8010	2	43	21200	42	2400	16700	9	406
16	7710	2	42	20600	58	3230	21300	16	920
17	6680	4	72	23100	45	2810	34600	75	7010
18	5860	2	32	20500	35	1940	38000	34	3490
19	5400	4	58	19600	24	1270	30800	42	3490
20	5700	4	62	17600	25	1190	34400	66	6130
21	6200	3	50	19200	22	1140	28800	20	1560
22	6600	8	143	21800	25	1470	24900	9	605
23	7200	63	1220	30100	110	8940	23200	9	564
24	6300	42	714	29600	66	5270	20600	7	389
25	5800	4	63	27500	23	1710	18300	7	346
26	5700	4	62	25300	16	1090	16700	3	135
27	6600	4	71	28000	110	8320	15200	2	82
28	5800	6	94	33500	65	5880	14200	3	115
29	6000	33	535	--	--	--	13100	5	177
30	6600	8	143	--	--	--	13000	7	246
31	6000	17	275	--	--	--	13900	4	150
TOTAL	237480	--	8530	464870	--	64967	739200	--	60579

01463500 DELAWARE RIVER AT TRENTON, N. J. (MORRISVILLE, PA.)--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	13800	6	224	12200	11	362	14800	34	1360
2	13700	3	111	11200	8	242	12500	25	844
3	15700	2	85	10200	5	138	11800	7	223
4	22800	17	1050	10200	7	193	11000	95	2820
5	25900	15	1050	10800	7	204	10000	38	1030
6	25900	14	979	10200	8	220	8990	19	461
7	31700	85	7280	9930	8	214	9240	24	599
8	28000	25	1890	9740	9	237	9160	65	1610
9	25000	13	878	10600	11	315	8170	85	1880
10	22200	8	480	10500	13	369	7330	32	633
11	23500	10	635	10700	11	318	6530	21	370
12	24600	9	598	10300	13	362	5870	19	301
13	23500	15	952	11600	36	1260	5560	19	285
14	24600	14	930	17300	90	4200	5350	19	274
15	28700	19	1470	26600	100	7180	6500	20	351
16	26600	30	2150	23200	40	2510	7110	27	518
17	21900	19	1120	20600	30	1670	7800	30	632
18	18900	8	408	18100	23	1120	7410	25	500
19	16800	10	454	15800	19	811	6470	20	349
20	15500	6	251	14100	18	685	6070	16	262
21	14900	2	80	12900	19	662	5630	13	198
22	14700	8	318	13000	24	842	5380	16	229
23	14300	7	270	12800	21	726	5250	13	184
24	13800	6	224	11100	15	450	4920	18	239
25	12600	9	306	10100	14	382	4700	17	216
26	11700	10	316	10500	18	510	4640	8	100
27	11000	4	119	11000	28	832	4920	8	106
28	10800	4	117	9570	19	491	4820	13	169
29	10700	5	144	8930	13	313	4580	22	272
30	10800	8	233	8320	12	270	4720	23	293
31	--	--	--	9240	12	299	--	--	--
TOTAL	574600	--	25122	391330	--	28387	217140	--	17308

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4500	20	243	6620	28	500	9750	40	1050
2	4780	18	232	11500	133	4230	7570	25	511
3	5190	20	280	9880	158	4210	6460	21	366
4	4580	21	260	14300	196	7570	5760	15	233
5	4250	20	230	16700	147	6480	5410	12	175
6	4250	20	230	15700	87	3690	5020	10	136
7	4130	21	234	11300	49	1490	5110	13	179
8	4050	19	208	8570	34	787	5210	12	169
9	3710	24	240	6800	24	441	5050	13	177
10	3920	23	243	5740	19	294	5280	11	157
11	4160	14	157	5040	17	231	5620	16	243
12	4110	12	133	5110	19	262	9350	100	2520
13	3740	18	182	4830	15	196	20500	236	13800
14	3790	23	235	4230	10	114	27300	184	13600
15	3830	23	238	3930	10	106	18700	73	3690
16	3670	15	149	4040	10	109	14500	49	1920
17	3890	11	116	3250	8	70	11700	35	1110
18	3900	10	105	3790	9	92	11700	23	727
19	4500	10	122	4000	7	76	10600	27	773
20	4820	10	130	3930	6	64	8950	26	628
21	4770	12	155	4030	7	76	8170	19	419
22	4030	13	141	4280	5	58	9260	23	575
23	3550	13	125	4250	8	92	9950	25	672
24	3530	9	86	4110	11	122	9070	23	563
25	3970	13	139	3920	10	106	8110	15	328
26	4180	12	135	3870	10	104	7600	11	226
27	4140	9	101	7820	126	3740	7210	17	331
28	4330	9	105	36800	791	78700	6770	16	292
29	4510	10	122	22700	186	11600	6650	7	126
30	4980	38	511	17800	98	4710	6640	7	125
31	5420	38	556	12300	58	1930	--	--	--
TOTAL	131180	--	6143	271140	--	132250	278970	--	45821

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 4301480
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 467772

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE

LOCATION.--Lat 40°04'55", long 74°51'58", Bucks County, at center of river 1,300 feet upstream from bridge on a line from the Pennsylvania bank through channel station -79.2 to Lehigh range light on New Jersey bank. Water-quality recorder (40°05'45", 74°51'10") located at raw-water intake of Bristol Filtration Plant, 1.2 miles upstream.

DRAINAGE AREA.--7,160 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1971.
Water temperatures: March 1953 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum, 397 micromhos Nov. 1; minimum, 91 micromhos Apr. 16.
Dissolved oxygen: Maximum, 13.1 mg/l Feb. 7; minimum, 1.8 mg/l July 26, Aug. 24.
Water temperatures: Maximum, 29.5°C June 28, July 8-12; minimum, freezing point on several days during winter months.
pH: Maximum, 8.0 Apr. 23; minimum, 6.5 Aug. 28-29.
Period of record:
Specific conductance (1968-71): Maximum, 397 micromhos Nov. 1, 1970; minimum, 54 micromhos June 3, 1968.
Dissolved oxygen (1962-71): Maximum, 14.5 mg/l Jan. 27, Feb. 6, 1964 and Mar. 10, 1966; minimum, 0.0 mg/l on several days in 1963, 1965, and 1967.
Water temperatures: Maximum, 31.0°C July 9, 1966; minimum, freezing point on many days during winter months.
pH (1968-71): Maximum, 8.2 Apr. 21, 1970; minimum, 6.1 Oct. 22, 1969.

REMARKS.--Samples collected approximately 3 feet from bottom.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT. 14...	.8	18	7.2	12	2.6	47	0	39	35	16
NOV. 05...	4.1	16	5.8	7.0	2.2	35	0	29	33	11
JAN. 07...	.3	17	5.8	10	2.3	44	0	36	32	16
FEB. 25...	1.8	15	4.3	7.5	1.8	34	0	28	26	11
MAR. 11...	5.6	15	4.5	6.8	1.4	32	0	26	27	11
APR. 08...	4.5	10	3.3	5.7	1.4	21	0	17	21	7.5
MAY 18...	2.4	11	3.8	5.2	1.4	23	0	19	20	6.8
JUNE 08...	5.0	17	5.0	7.4	1.9	42	0	34	27	10
JULY 15...	.8	23	7.2	9.4	2.4	56	0	46	36	14
AUG. 05...	.7	16	5.4	6.8	2.6	45	0	37	27	9.5

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
OCT. 14...	.2	8.8	.59	133	75	36	219	7.0	5	--
NOV. 05...	.2	7.4	.38	101	64	36	170	7.2	2	--
JAN. 07...	1.2	3.4	.05	129	67	31	199	8.0	1	--
FEB. 25...	1.2	5.8	.13	106	55	27	159	7.9	4	--
MAR. 11...	1.2	5.8	.23	104	56	30	159	7.5	1	--
APR. 08...	.4	.1	.02	77	39	22	113	8.1	1	--
MAY 18...	.3	3.0	.23	82	43	24	121	7.1	2	16.0
JUNE 08...	.1	6.3	.41	104	63	29	178	7.4	6	25.0
JULY 15...	.1	7.6	.88	128	87	41	230	7.5	3	28.0
AUG. 05...	.1	5.0	.24	101	62	25	180	8.9	4	25.0

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	243	221	234	397	194	213	201	170	175	262	248	251
2	252	226	236	243	206	216	203	173	182	261	250	254
3	243	233	237	249	215	223	220	188	196	262	253	257
4	247	239	242	244	223	231	218	195	200	270	245	257
5	265	244	250	253	228	235	224	198	203	291	255	264
6	317	251	261	240	225	229	204	198	200	273	243	255
7	266	250	255	243	225	231	228	201	208	252	232	237
8	262	248	256	263	230	241	231	207	213	256	228	236
9	304	252	260	279	244	251	223	209	216	235	223	229
10	274	255	260	266	245	252	237	205	214	231	219	226
11	275	258	262	259	245	250	221	203	211	223	212	218
12	293	251	261	274	242	249	223	206	211	230	208	214
13	290	253	261	245	238	242	217	208	212	229	207	213
14	280	248	257	237	197	219	237	211	221	229	209	217
15	261	249	255	205	184	192	245	216	223	241	221	226
16	290	233	253	188	167	176	233	215	222	249	224	230
17	318	237	252	197	171	176	228	217	221	234	224	227
18	248	222	237	222	167	173	287	219	227	240	226	232
19	250	230	236	205	163	170	224	209	215	255	237	243
20	262	236	241	212	162	169	235	211	221	258	241	248
21	351	238	250	206	168	181	243	223	236	256	246	249
22	348	223	249	205	181	186	251	238	240	267	249	257
23	226	208	215	204	167	180	242	235	239	278	260	269
24	230	189	212	181	151	160	266	236	241	273	263	270
25	187	139	161	173	149	157	245	233	238	270	243	257
26	157	133	141	184	156	163	240	234	236	258	235	249
27	175	143	150	177	160	164	246	233	238	254	230	239
28	200	150	165	191	160	166	248	240	244	259	237	243
29	227	166	176	181	160	165	255	246	249	256	243	247
30	197	175	180	198	161	169	252	244	248	254	246	249
31	243	181	192	---	---	---	253	244	248	263	253	256
MONTH	351	133	229	397	149	201	287	170	221	291	207	243

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	261	252	257	137	126	131	180	161	164	187	178	180
2	257	247	252	124	115	118	191	154	162	192	180	184
3	259	248	252	121	112	117	163	149	154	198	169	177
4	253	246	249	133	113	120	160	142	148	214	166	173
5	255	242	248	143	125	135	143	117	129	195	168	174
6	257	245	251	145	134	138	116	105	109	198	175	180
7	260	252	256	150	137	140	112	102	106	194	173	180
8	258	203	233	150	142	---	131	102	113	184	172	178
9	213	194	205	---	---	---	124	116	118	197	172	178
10	194	171	182	---	---	---	132	99	118	185	174	177
11	175	168	171	---	---	---	121	116	118	196	175	181
12	186	170	177	---	---	---	117	110	114	227	181	185
13	205	187	194	---	---	---	124	106	110	193	179	183
14	209	141	173	---	---	---	110	105	107	187	168	176
15	156	144	147	171	163	---	114	102	106	194	170	177
16	170	144	151	197	159	165	110	91	100	174	132	152
17	165	156	160	171	136	152	102	92	95	148	129	134
18	153	138	144	146	106	119	115	95	103	156	137	142
19	144	133	137	111	98	104	133	118	128	160	145	148
20	151	132	137	116	99	107	151	132	138	169	147	150
21	153	139	146	134	110	120	160	141	146	180	150	156
22	160	146	150	133	118	121	162	144	150	179	158	163
23	162	145	152	151	123	128	192	152	157	184	165	169
24	165	143	149	152	127	132	180	154	158	202	170	174
25	159	142	148	147	132	136	162	153	156	176	168	172
26	148	135	140	149	135	139	170	152	156	187	169	172
27	144	132	136	152	140	143	167	155	159	207	171	176
28	140	131	134	158	143	147	179	161	165	189	176	181
29	---	---	---	155	147	150	172	165	169	195	184	188
30	---	---	---	179	151	156	199	173	177	294	187	192
31	---	---	---	167	155	159	---	---	---	201	185	192
MONTH	261	131	183	197	98	---	199	91	134	227	129	172

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	199	190	193	235	222	227	230	211	215	167	157	160
2	231	191	198	237	219	226	214	202	209	178	160	165
3	206	189	194	226	218	223	217	200	205	178	167	172
4	194	182	186	251	218	224	205	177	189	186	174	179
5	200	185	190	241	219	224	191	176	180	193	181	187
6	231	191	199	254	219	225	185	172	178	200	187	192
7	232	198	205	234	220	224	179	156	166	209	193	199
8	218	205	208	227	217	223	168	153	158	216	202	207
9	226	210	214	226	216	223	161	152	156	237	209	217
10	233	214	220	225	217	222	173	156	159	232	218	224
11	238	219	227	229	217	223	179	160	164	233	224	228
12	246	228	236	247	221	226	179	167	171	227	222	225
13	255	237	241	236	221	227	180	173	176	223	196	210
14	299	208	227	233	222	227	195	179	184	183	144	158
15	214	209	212	238	224	228	197	186	190	158	143	150
16	222	211	215	275	225	231	206	191	197	185	155	167
17	250	182	217	273	227	231	237	190	203	196	173	183
18	237	216	220	249	224	230	226	198	208	219	187	192
19	239	217	221	273	222	230	245	204	215	213	190	196
20	236	210	218	243	223	229	234	210	219	217	197	200
21	220	205	213	233	223	228	238	217	225	203	195	199
22	216	196	208	265	219	226	243	223	229	212	199	203
23	253	197	208	230	212	220	235	225	232	238	203	207
24	211	200	205	235	212	216	241	232	234	247	209	216
25	214	204	206	217	209	213	234	230	232	237	211	219
26	224	206	209	222	210	217	234	230	231	244	206	216
27	221	210	212	251	222	226	231	220	226	222	201	208
28	246	212	218	239	220	226	216	114	160	222	199	206
29	232	215	221	232	219	225	131	114	121	209	199	205
30	228	220	223	229	217	222	154	134	145	213	204	208
31	---	---	---	220	215	217	166	150	157	---	---	---
MONTH	299	182	212	275	209	224	245	114	191	247	143	197

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.8	3.8	4.1	8.2	7.8	8.0	11.4	8.6	11.0	12.3	10.7	11.9
2	4.7	3.7	4.2	9.0	8.0	8.5	11.2	10.6	11.0	12.0	10.7	11.0
3	5.5	3.9	4.5	8.9	8.3	8.7	10.8	10.5	10.7	12.4	12.1	12.3
4	6.3	4.2	5.1	8.9	8.4	8.6	10.7	10.3	10.6	12.5	12.3	12.4
5	6.5	4.8	5.6	8.6	8.4	8.5	10.7	10.4	10.6	12.5	11.9	12.3
6	6.6	5.0	5.8	8.7	8.4	8.6	10.8	10.4	10.6	12.6	12.1	12.4
7	6.6	5.5	6.0	8.6	8.3	8.4	11.2	10.7	10.9	12.4	12.2	12.3
8	6.4	4.8	5.6	8.5	8.0	8.3	11.3	10.9	11.1	12.5	12.2	12.4
9	5.6	4.3	4.9	8.6	8.1	8.4	11.6	11.1	11.4	12.7	12.2	12.5
10	5.2	4.0	4.5	8.7	8.2	8.5	12.1	11.5	11.8	12.8	12.6	12.7
11	4.9	4.1	4.5	8.6	8.2	8.4	12.2	11.8	12.1	13.0	12.7	12.8
12	5.6	4.6	5.0	8.8	8.3	8.5	12.2	12.0	12.1	12.9	12.5	12.8
13	5.7	4.3	5.1	8.8	8.2	8.6	12.1	11.8	12.0	12.7	12.5	12.7
14	5.6	4.7	5.1	9.2	8.5	8.8	12.1	11.8	11.9	12.6	12.3	12.5
15	5.5	4.5	5.0	9.7	9.1	9.5	11.9	11.7	11.8	12.3	12.1	12.2
16	6.5	4.6	5.6	10.1	9.7	9.9	12.1	11.7	11.9	12.3	12.1	12.2
17	7.0	5.6	6.3	10.4	9.8	10.1	12.1	11.8	12.0	12.3	12.1	12.3
18	7.9	6.2	7.0	10.8	10.2	10.5	12.1	11.6	12.0	12.3	12.1	12.2
19	7.7	6.0	6.9	11.0	10.5	10.8	11.9	11.7	11.8	12.5	12.1	12.3
20	7.4	6.2	6.7	11.0	10.5	10.9	11.8	11.6	11.8	12.5	12.2	12.4
21	7.3	6.4	6.8	10.8	9.9	10.7	11.9	11.7	11.8	12.6	12.2	12.5
22	7.6	6.6	7.0	10.8	10.6	10.7	12.1	11.7	11.9	12.6	12.4	12.5
23	8.2	7.5	7.9	11.0	10.6	10.9	12.0	11.8	11.9	12.7	12.4	12.6
24	8.2	6.1	7.4	11.0	10.6	10.8	12.0	11.8	11.9	12.7	12.5	12.6
25	8.6	5.8	7.9	11.4	10.9	11.1	12.1	12.0	12.0	12.7	12.4	12.6
26	8.7	7.9	8.3	11.7	11.3	11.5	12.1	12.0	12.0	12.5	12.2	12.4
27	8.3	8.0	8.1	12.0	11.6	11.9	12.2	11.9	12.1	12.5	12.2	12.4
28	8.3	8.0	8.1	12.2	10.0	11.9	12.3	12.1	12.2	12.6	12.2	12.5
29	8.4	7.9	8.1	12.1	10.0	11.9	12.4	11.9	12.2	12.5	12.3	12.4
30	8.1	7.7	8.0	11.9	11.3	11.7	12.2	12.0	12.1	12.4	12.2	12.3
31	8.2	7.9	8.1	---	---	---	12.3	12.1	12.2	12.6	12.2	12.4
MONTH	8.7	3.7	6.2	12.2	7.8	9.8	12.4	8.6	11.7	13.0	10.7	12.4

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.8	12.5	12.6	12.0	11.7	11.8	10.6	10.2	10.5	10.0	9.5	9.8
2	12.9	12.6	12.7	12.3	12.1	12.2	10.6	10.1	10.4	10.1	8.0	9.9
3	12.9	12.5	12.7	12.3	12.1	12.2	10.5	10.1	10.4	10.4	9.8	10.1
4	12.9	12.4	12.6	12.4	12.0	12.2	10.5	9.9	10.3	10.1	9.8	10.0
5	12.8	12.4	12.5	12.7	12.2	12.4	10.8	10.3	10.5	10.2	9.8	9.9
6	12.9	12.4	12.7	12.7	12.5	12.6	10.9	10.6	10.7	10.2	9.4	9.9
7	13.1	12.7	12.9	12.7	12.2	12.5	10.9	10.7	10.8	10.1	9.5	9.8
8	12.8	12.2	12.5	12.3	12.0	---	10.9	10.6	10.8	9.6	8.7	9.1
9	12.3	11.8	12.1	---	---	---	10.8	10.5	10.7	9.2	8.6	8.8
10	11.9	11.6	11.8	---	---	---	10.7	10.1	10.5	8.8	8.5	8.6
11	11.8	11.5	11.7	---	---	---	10.4	10.2	10.3	9.0	8.4	8.7
12	11.6	11.3	11.5	---	---	---	10.7	10.2	10.4	9.4	8.5	9.0
13	11.8	11.2	11.4	---	---	---	10.7	10.1	10.4	9.4	8.8	9.0
14	12.3	11.7	11.9	---	---	---	10.2	9.7	10.1	8.9	8.2	8.6
15	12.4	11.8	12.1	11.3	11.1	---	9.9	9.5	9.7	8.4	8.0	8.2
16	12.7	12.2	12.5	11.1	10.4	10.9	9.8	9.5	9.6	9.0	8.0	8.6
17	12.8	12.6	12.7	11.0	10.4	10.7	9.7	9.4	9.6	9.0	8.2	8.8
18	12.7	12.1	12.6	11.7	11.0	11.3	10.3	9.4	9.8	9.1	8.7	8.9
19	12.7	12.4	12.6	11.8	11.6	11.7	11.2	10.4	11.0	8.6	8.2	8.4
20	12.5	12.0	12.4	11.9	11.5	11.7	11.1	10.6	10.8	8.3	7.8	8.1
21	12.3	11.9	12.1	11.6	11.3	11.5	10.7	10.0	10.4	8.0	7.1	7.6
22	12.1	11.8	11.9	11.9	11.7	11.8	10.3	9.6	9.9	7.3	6.6	7.0
23	11.9	11.6	11.8	11.9	11.3	11.7	9.7	9.1	9.5	7.1	6.5	6.7
24	11.9	11.5	11.8	11.5	10.3	11.3	9.8	9.3	9.5	8.3	6.4	7.5
25	12.0	11.7	11.9	11.4	11.2	11.3	9.8	9.3	9.6	8.4	7.2	8.0
26	12.1	11.8	12.0	11.5	11.2	11.4	10.1	9.4	9.7	8.2	7.7	8.0
27	12.0	11.8	12.0	11.6	11.2	11.4	10.2	9.5	9.9	8.3	7.6	7.9
28	11.9	11.5	11.7	11.6	11.1	11.4	10.3	9.7	10.0	8.1	7.4	7.8
29	---	---	---	11.6	11.3	11.4	10.5	10.0	10.2	8.2	7.3	7.6
30	---	---	---	11.4	10.8	11.1	10.1	8.0	9.8	7.7	6.8	7.3
31	---	---	---	11.0	10.5	10.7	---	---	---	7.7	7.1	7.3
MONTH	13.1	11.2	12.2	12.7	10.3	---	11.2	8.0	10.2	10.4	6.4	8.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	9.7	7.1	7.8	4.5	2.3	3.3	---	---	---	5.9	5.3	5.6
2	9.2	8.0	8.6	3.7	2.7	3.1	---	---	---	5.9	5.3	5.6
3	8.3	7.7	8.0	4.9	3.0	3.6	---	---	---	5.7	4.4	5.2
4	7.8	7.4	7.6	6.2	2.9	4.3	---	---	---	5.3	3.8	4.8
5	7.6	7.0	7.3	6.7	3.5	4.8	---	---	---	5.4	3.5	4.7
6	7.0	6.2	6.5	6.0	3.6	4.7	5.7	4.8	---	5.4	3.4	4.8
7	6.7	5.8	6.2	5.7	3.6	4.7	6.1	4.3	5.3	5.3	2.9	4.1
8	7.3	5.6	6.4	5.7	3.5	4.7	5.7	3.8	4.6	4.1	2.6	3.6
9	7.5	5.7	6.6	6.1	3.8	4.9	5.8	3.7	4.7	5.1	3.5	4.4
10	6.2	5.0	5.7	6.2	4.0	5.0	6.4	3.7	5.0	5.4	4.4	4.7
11	5.2	4.4	4.7	4.8	3.6	4.2	7.2	4.5	5.3	5.1	4.1	4.4
12	4.5	4.1	4.2	5.3	2.7	3.7	5.7	3.5	4.5	5.4	4.1	4.7
13	4.6	3.8	4.0	6.1	3.2	4.2	6.1	4.0	4.5	6.0	5.0	5.5
14	4.6	3.6	4.0	4.5	3.6	4.1	5.6	4.0	4.4	7.5	5.6	7.0
15	4.6	3.7	4.1	5.2	3.7	4.3	4.7	3.8	4.1	7.4	6.9	7.1
16	4.2	3.6	3.9	5.2	3.2	4.4	5.4	3.3	4.2	7.2	6.7	6.9
17	4.2	3.3	3.5	5.2	3.2	4.3	4.9	2.9	3.7	6.9	6.4	6.6
18	4.7	3.4	3.9	5.7	4.0	4.6	4.2	2.9	3.5	6.5	6.0	6.3
19	4.8	3.8	4.3	5.4	4.2	4.7	3.6	2.7	3.3	6.5	5.8	6.2
20	5.5	3.7	4.7	4.9	3.9	4.3	3.5	2.4	2.8	6.3	5.7	6.0
21	5.6	4.3	4.8	5.3	3.8	4.5	3.4	2.0	2.8	6.5	5.7	6.1
22	5.3	4.2	4.6	5.1	3.9	4.5	3.1	2.5	2.7	6.5	5.8	6.1
23	5.1	3.8	4.3	5.5	3.9	4.6	3.0	2.3	2.7	6.2	5.7	5.9
24	4.6	3.4	3.9	5.3	3.9	4.5	3.0	1.8	2.5	6.7	5.5	6.2
25	4.6	3.2	3.8	5.2	3.9	4.5	3.8	2.4	3.0	6.8	6.1	6.4
26	4.3	2.8	3.5	4.3	1.8	---	3.9	2.7	3.2	6.6	6.2	6.4
27	4.2	2.7	3.2	---	---	---	4.4	3.1	3.8	7.0	6.3	6.6
28	3.8	2.6	3.2	---	---	---	5.6	4.1	4.9	7.2	6.3	6.7
29	3.6	2.5	2.9	---	---	---	5.6	5.0	5.2	7.1	6.3	6.7
30	4.0	2.3	2.9	---	---	---	5.5	3.8	4.9	7.1	6.4	6.7
31	---	---	---	---	---	---	5.9	5.3	5.5	---	---	---
MONTH	9.7	2.3	5.0	6.7	1.8	4.3	7.2	1.8	4.0	7.5	2.6	5.7

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.0	23.0	23.5	13.0	12.0	12.5	7.0	6.0	6.5	1.0	1.0	1.0
2	23.5	22.0	23.0	13.5	12.0	13.0	8.0	6.5	7.0	1.0	1.0	1.0
3	23.0	21.0	22.5	13.5	13.0	13.0	8.5	8.0	8.0	1.5	1.0	1.0
4	22.0	20.0	21.0	13.5	13.0	13.0	8.5	8.0	8.5	1.5	1.0	1.0
5	21.0	19.5	20.5	13.5	12.0	13.0	8.5	8.0	8.0	1.5	1.0	1.5
6	21.0	19.5	20.5	13.0	12.0	12.0	8.0	6.5	7.0	2.0	1.5	1.5
7	20.5	19.5	20.0	12.0	11.5	11.5	6.5	5.5	6.0	2.0	1.5	1.5
8	20.5	19.5	20.0	12.0	11.0	11.5	5.5	4.5	5.0	1.5	1.0	1.5
9	20.5	19.5	20.0	11.5	11.0	11.5	4.5	4.0	4.5	1.5	1.0	1.0
10	20.5	19.5	20.0	11.5	11.0	11.5	4.0	3.5	4.0	1.0	0.5	1.0
11	20.0	19.5	20.0	12.0	11.5	11.5	4.0	3.5	3.5	1.0	0.0	1.0
12	20.5	20.0	20.0	13.0	12.0	12.5	4.0	3.5	4.0	2.0	1.0	1.5
13	20.5	20.0	20.0	13.5	13.0	13.0	4.5	4.0	4.0	2.0	1.5	1.5
14	21.0	20.5	20.5	13.5	12.0	13.0	4.0	3.5	4.0	3.0	1.5	2.0
15	21.0	20.5	20.5	12.0	11.0	11.5	4.0	3.5	4.0	3.0	2.0	2.5
16	20.5	20.0	20.0	11.0	10.5	11.0	4.0	3.5	4.0	3.0	2.0	2.0
17	20.0	18.5	19.0	10.0	9.5	10.0	4.5	4.0	4.0	2.0	1.5	1.5
18	19.0	16.5	18.0	9.5	8.5	9.0	4.5	4.0	4.0	1.5	1.0	1.5
19	18.0	16.0	17.0	8.5	8.5	8.5	4.5	4.0	4.0	1.0	1.0	1.0
20	17.0	15.5	16.0	9.0	8.5	8.5	4.5	4.0	4.5	1.0	0.5	0.5
21	16.5	15.0	15.5	9.0	8.5	8.5	4.5	4.0	4.5	0.5	0.5	0.5
22	16.0	15.0	15.5	9.0	8.5	8.5	4.5	4.0	4.5	1.0	0.5	0.5
23	15.0	15.0	15.0	9.0	8.0	8.5	4.5	4.0	4.5	1.5	1.0	1.0
24	15.0	14.5	15.0	8.0	6.5	7.0	4.0	3.5	4.0	1.5	1.5	1.5
25	14.5	14.0	14.5	6.5	5.5	6.0	4.0	3.0	3.5	1.5	1.5	1.5
26	15.0	14.0	14.0	5.5	4.5	5.0	3.5	3.0	3.0	1.5	1.0	1.5
27	14.5	14.0	14.0	5.0	4.5	4.5	2.0	1.5	2.0	1.5	0.5	1.0
28	14.0	13.5	14.0	5.0	4.5	4.5	2.0	1.5	1.5	1.0	0.0	0.5
29	14.0	13.0	13.5	5.5	5.0	5.0	2.0	1.5	1.5	0.5	0.0	0.0
30	13.5	13.0	13.0	6.0	5.5	5.5	1.5	1.5	1.5	0.5	0.0	0.0
31	13.0	12.0	13.0	---	---	---	1.5	1.0	1.5	1.0	0.5	0.5
MONTH	24.0	12.0	18.0	13.5	4.5	10.0	8.5	1.0	4.5	3.0	0.0	1.0

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.0	0.5	5.0	4.5	4.5	9.5	8.0	8.5	13.0	12.0	12.5
2	0.5	0.0	0.0	4.5	3.5	4.0	9.5	8.5	9.0	13.5	13.0	13.0
3	0.0	0.0	0.0	3.5	3.5	3.5	10.0	9.0	9.5	14.0	13.5	13.5
4	0.0	0.0	0.0	3.5	1.5	2.5	10.5	10.0	10.0	13.5	13.5	13.5
5	0.5	0.0	0.0	2.0	1.5	1.5	10.0	9.5	9.5	14.0	13.0	13.5
6	1.0	0.5	0.5	3.0	1.0	1.5	9.5	7.0	8.5	14.5	13.5	14.0
7	1.5	1.0	1.0	3.5	2.0	2.5	7.0	6.0	6.5	15.5	14.0	14.5
8	1.5	1.0	1.0	3.5	3.5	---	6.5	6.0	6.5	15.5	15.0	15.0
9	1.0	0.5	0.5	---	---	---	8.5	6.5	7.5	15.5	15.0	15.5
10	0.5	0.0	0.5	---	---	---	9.0	8.0	8.5	16.0	15.0	15.5
11	0.5	0.0	0.5	---	---	---	9.5	8.5	9.0	16.0	15.5	16.0
12	1.0	0.5	0.5	---	---	---	10.0	9.0	9.5	17.0	16.0	16.5
13	2.0	1.0	1.0	---	---	---	10.5	9.5	10.0	18.0	16.5	17.5
14	3.0	1.0	2.0	---	---	---	11.0	10.0	10.5	18.5	18.0	18.0
15	1.5	0.5	1.0	7.0	6.5	---	11.0	10.5	10.5	18.0	16.5	17.5
16	1.5	0.5	0.5	9.5	7.0	8.0	11.0	10.0	10.5	17.0	15.5	16.0
17	1.5	0.5	1.0	9.0	7.0	8.5	10.5	10.0	10.0	16.0	15.0	15.0
18	2.0	1.5	1.5	7.0	5.0	6.0	10.0	9.5	10.0	16.0	14.5	15.5
19	3.0	1.5	2.0	5.0	4.5	5.0	11.0	9.5	10.0	18.0	16.0	16.5
20	4.0	3.0	3.0	5.0	4.5	4.5	12.0	10.5	11.5	19.0	17.0	18.5
21	4.5	3.5	3.5	5.0	4.0	4.5	13.5	12.0	12.5	19.5	19.0	19.0
22	4.5	4.0	4.0	5.0	4.0	4.5	14.0	13.5	13.5	19.5	19.0	19.0
23	4.5	4.0	4.0	6.0	4.5	5.0	14.0	13.5	14.0	19.5	19.0	19.0
24	4.0	3.5	3.5	6.0	5.5	5.5	14.0	13.5	14.0	19.5	19.0	19.0
25	3.5	3.0	3.5	6.0	5.5	5.5	13.5	13.5	13.5	20.0	19.0	19.5
26	4.0	3.5	3.5	5.5	5.0	5.5	13.5	12.0	13.0	20.0	19.5	19.5
27	5.0	4.0	4.5	5.5	5.0	5.5	13.0	12.0	12.5	20.5	20.0	20.0
28	5.0	4.5	5.0	5.5	4.5	5.5	13.0	12.0	12.0	20.5	20.0	20.0
29	---	---	---	6.5	5.5	6.0	12.0	11.5	12.0	20.0	19.0	20.0
30	---	---	---	7.0	6.0	6.5	13.0	12.0	12.0	19.5	19.0	19.0
31	---	---	---	8.0	7.0	7.5	---	---	---	19.0	18.5	19.0
MONTH	5.0	0.0	2.0	9.5	1.0	---	14.0	6.0	10.5	20.5	12.0	17.0

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	18.5	19.0	29.5	29.0	29.0	28.5	27.0	28.0	22.0	21.5	21.5
2	19.5	19.0	19.0	29.0	29.0	29.0	28.0	27.0	27.0	22.0	21.5	22.0
3	20.0	19.5	19.5	29.0	28.5	28.5	28.0	26.5	27.0	23.0	22.0	22.5
4	21.0	20.0	20.5	29.0	28.0	28.5	27.0	25.5	26.0	23.5	22.0	23.0
5	22.0	21.0	21.5	29.0	28.0	28.5	26.0	24.0	25.0	23.5	23.0	23.5
6	23.5	21.5	22.5	29.0	28.0	28.5	25.0	23.0	24.0	24.5	23.5	24.0
7	24.5	23.0	24.0	29.0	28.5	28.5	24.0	23.0	23.5	25.0	24.0	24.5
8	25.5	24.0	24.5	29.5	28.5	29.0	24.0	23.5	23.5	25.5	24.5	25.0
9	26.0	25.0	25.5	29.5	29.0	29.0	24.5	24.0	24.0	26.0	25.0	25.5
10	26.5	25.5	26.0	29.5	29.0	29.5	25.5	24.5	25.0	26.5	25.5	26.0
11	26.0	25.5	26.0	29.5	29.0	29.0	26.0	25.0	25.5	26.5	26.0	26.0
12	26.5	26.0	26.0	29.5	28.5	29.0	26.0	25.5	26.0	27.0	26.0	26.0
13	26.5	26.0	26.0	29.0	28.5	28.5	27.0	25.5	26.0	26.5	25.0	25.5
14	26.5	21.0	25.5	28.5	28.5	28.5	27.0	26.0	26.5	24.5	21.5	22.5
15	25.0	24.0	24.5	28.5	27.0	28.0	27.0	26.5	26.5	21.5	21.0	21.5
16	25.0	24.0	24.5	28.0	27.0	27.0	26.5	26.0	26.5	22.0	21.0	21.5
17	24.5	23.5	24.0	27.0	26.5	27.0	27.0	26.0	26.5	22.0	21.5	22.0
18	24.0	22.0	23.5	27.0	26.5	26.5	27.0	26.5	26.5	23.0	22.0	22.5
19	23.5	22.0	23.0	27.0	26.5	26.5	27.0	26.5	27.0	23.0	22.0	22.0
20	24.0	23.0	23.5	27.0	26.5	26.5	27.0	26.5	27.0	23.0	22.0	22.0
21	24.5	23.5	24.0	27.0	26.0	26.5	27.0	26.5	27.0	22.0	21.5	22.0
22	25.5	24.5	25.0	27.0	26.5	26.5	28.0	27.0	27.0	21.5	21.5	21.5
23	26.5	25.0	25.5	27.0	26.5	26.5	27.0	26.5	27.0	21.5	21.0	21.5
24	27.0	25.5	26.0	27.0	26.5	26.5	26.5	26.0	26.5	21.0	20.5	21.0
25	28.0	26.5	27.0	27.0	26.5	27.0	26.5	26.0	26.0	20.5	20.0	20.5
26	28.0	27.0	27.5	27.0	27.0	27.0	26.5	26.0	26.0	20.0	19.5	20.0
27	29.0	28.0	28.5	28.0	27.0	27.0	26.0	25.0	25.5	19.5	19.0	19.5
28	29.5	28.5	28.5	28.5	27.0	27.5	25.0	21.0	22.5	19.5	19.0	19.0
29	29.0	28.5	28.5	28.5	28.0	28.0	21.0	20.5	21.0	19.5	18.5	19.0
30	29.0	28.5	28.5	28.0	27.0	28.0	21.0	21.0	21.5	19.0	19.0	19.0
31	---	---	---	28.0	27.0	27.5	22.0	21.5	21.5	---	---	---
MONTH	29.5	18.5	24.5	29.5	26.0	28.0	28.5	20.5	25.5	27.0	18.5	22.5

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.7	6.8	---	---	---	7.5	7.3	7.4	7.7	7.5	7.6
2	7.0	6.8	6.8	---	---	---	7.5	7.3	7.4	7.6	7.5	7.6
3	7.2	6.8	7.0	---	---	---	7.5	7.2	7.4	7.6	7.5	7.6
4	6.9	6.7	6.8	---	---	---	7.5	7.3	7.4	7.7	7.6	7.6
5	7.0	6.8	6.9	---	---	---	7.5	7.3	7.4	7.8	7.5	7.6
6	7.2	6.7	7.0	---	---	---	7.5	7.3	7.4	7.7	7.5	7.6
7	7.3	6.9	7.1	---	---	---	7.8	7.4	7.5	7.6	7.4	7.5
8	---	---	---	---	---	---	7.6	7.1	7.5	7.8	7.5	7.6
9	---	---	---	7.2	7.1	---	7.6	7.5	7.6	7.6	7.5	7.5
10	---	---	---	7.2	7.1	7.1	7.8	7.4	7.6	7.6	7.5	7.6
11	---	---	---	7.2	7.1	7.2	7.7	7.5	7.6	7.6	7.4	7.6
12	---	---	---	7.3	7.2	7.3	7.6	7.5	7.6	7.7	7.5	7.6
13	---	---	---	7.3	7.2	7.3	7.6	7.4	7.5	7.7	7.4	7.6
14	---	---	---	7.2	7.1	7.2	7.5	7.4	7.5	7.7	7.5	7.6
15	---	---	---	7.4	7.2	7.2	7.6	7.5	7.5	7.7	7.5	7.6
16	---	---	---	7.3	7.2	7.2	7.6	7.5	7.6	7.7	7.6	7.6
17	---	---	---	7.3	7.2	7.3	7.6	7.5	7.6	7.6	7.4	7.6
18	---	---	---	7.4	7.2	7.3	7.7	7.5	7.6	7.6	7.5	7.5
19	---	---	---	7.3	7.2	7.3	7.6	7.3	7.5	7.6	7.3	7.5
20	---	---	---	7.4	7.2	7.3	7.4	7.4	7.4	7.6	7.4	7.5
21	---	---	---	7.4	7.1	7.3	7.5	7.4	7.5	7.6	7.5	7.6
22	---	---	---	7.5	7.3	7.4	7.6	7.4	7.5	7.6	7.5	7.6
23	---	---	---	7.5	7.4	7.4	7.6	7.5	7.5	7.7	7.5	7.6
24	---	---	---	7.5	7.4	7.4	7.6	7.5	7.6	7.7	7.5	7.6
25	---	---	---	7.4	7.3	7.4	7.6	7.6	7.6	7.6	7.3	7.4
26	---	---	---	7.5	7.2	7.4	7.6	7.5	7.6	7.3	7.2	7.3
27	---	---	---	7.5	7.4	7.5	7.6	7.5	7.6	7.3	7.2	7.3
28	---	---	---	7.5	7.3	7.4	7.8	7.5	7.6	7.3	7.2	7.3
29	---	---	---	7.5	7.3	7.4	7.6	7.5	7.6	7.4	7.2	7.3
30	---	---	---	7.5	7.3	7.4	7.6	7.5	7.5	7.4	7.2	7.3
31	---	---	---	---	---	---	7.6	7.6	7.6	7.2	7.1	7.2
MONTH	---	---	---	---	---	---	7.8	7.1	7.5	7.8	7.1	7.5

01464600 DELAWARE RIVER AT BRISTOL, PA.-BURLINGTON, N. J. BRIDGE--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	7.1	7.2	7.0	6.8	6.9	7.3	7.0	7.1	7.0	6.9	7.0
2	7.3	7.2	7.2	7.0	6.8	6.9	7.2	7.0	7.2	7.0	6.9	7.0
3	7.3	7.2	7.3	7.0	6.9	7.0	7.2	7.0	7.1	7.1	6.6	7.0
4	7.4	7.3	7.3	7.0	6.8	6.9	7.1	7.0	7.0	7.0	6.8	6.9
5	7.3	7.2	7.3	7.0	6.9	6.9	7.1	6.9	7.0	7.1	6.9	7.0
6	7.3	7.2	7.2	7.1	6.9	7.0	7.0	6.9	7.0	7.2	7.0	7.1
7	7.3	7.2	7.2	7.1	7.0	7.1	7.0	6.7	6.9	7.2	7.0	7.1
8	7.3	7.2	7.2	7.0	7.0	---	6.9	6.6	6.7	7.1	7.0	7.1
9	7.3	7.0	7.1	---	---	---	6.9	6.6	6.8	7.2	6.9	7.0
10	7.0	6.8	6.9	---	---	---	6.8	6.7	6.8	7.1	6.9	7.0
11	6.9	6.8	6.9	---	---	---	6.9	6.8	6.8	7.1	6.8	7.0
12	6.9	6.9	6.9	---	---	---	7.2	6.8	7.0	7.1	6.9	7.0
13	7.0	6.9	7.0	---	---	---	7.6	7.0	7.2	7.0	6.9	7.0
14	7.1	6.9	7.0	---	---	---	7.1	6.8	7.0	7.0	6.7	6.9
15	7.1	7.0	7.1	7.2	7.0	---	7.1	6.8	7.0	6.9	6.7	6.8
16	7.1	7.0	7.0	7.2	7.0	7.1	7.1	6.8	7.0	6.9	6.8	6.8
17	7.2	7.0	7.1	7.1	6.9	7.0	6.9	6.7	6.8	7.0	6.7	6.8
18	7.1	7.0	7.0	7.2	6.9	7.0	7.0	6.8	6.8	7.0	6.7	6.8
19	7.1	6.9	7.0	7.0	6.9	7.0	7.3	6.7	7.0	6.9	6.7	6.8
20	7.1	7.0	7.0	7.0	6.9	7.0	7.3	7.1	7.3	6.9	6.6	6.7
21	7.2	7.0	7.1	7.0	6.8	6.9	7.4	7.1	7.3	6.9	6.7	6.8
22	7.2	7.1	7.1	7.0	6.8	7.0	7.3	7.1	7.2	6.9	6.8	6.9
23	7.2	7.1	7.2	7.1	7.0	7.1	8.0	7.1	7.3	7.0	6.7	6.9
24	7.1	7.0	7.0	7.0	6.9	7.0	7.3	7.0	7.2	7.2	6.7	7.0
25	7.1	6.9	7.1	7.1	6.9	7.0	7.2	7.0	7.1	7.2	7.0	7.1
26	7.1	7.0	7.1	7.0	6.9	7.0	7.2	7.0	7.1	7.2	7.0	7.1
27	7.1	7.0	7.1	7.1	6.9	7.0	7.2	7.0	7.1	7.1	6.9	7.0
28	7.0	6.9	7.0	7.0	7.0	7.0	7.2	7.0	7.1	7.2	6.9	7.1
29	---	---	---	7.2	7.0	7.1	7.0	6.9	7.0	7.1	7.0	7.0
30	---	---	---	7.2	7.0	7.1	7.0	6.9	7.0	7.0	6.9	7.0
31	---	---	---	7.2	7.0	7.1	---	---	---	7.0	6.9	7.0
MONTH	7.4	6.8	7.1	7.2	6.8	---	8.0	6.6	7.0	7.2	6.6	7.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	6.8	7.0	7.3	6.9	7.1	7.0	6.8	6.9	6.8	6.7	6.7
2	7.1	6.9	7.0	7.0	6.8	6.9	7.0	6.8	6.9	6.8	6.7	6.7
3	7.0	6.9	7.0	7.2	6.8	7.0	6.9	6.8	6.9	6.9	6.7	6.8
4	7.0	6.8	6.9	7.3	6.8	7.0	6.9	6.7	6.8	6.9	6.8	6.9
5	7.1	6.8	6.9	7.3	6.9	7.1	6.9	6.7	6.8	7.0	6.8	6.9
6	7.0	6.8	6.9	7.4	6.9	7.1	7.1	6.8	6.9	7.0	6.8	6.9
7	7.1	6.8	7.0	7.1	6.9	7.1	7.0	6.9	6.9	6.9	6.8	6.9
8	7.2	6.9	7.1	7.2	6.9	7.1	6.9	6.8	6.9	7.0	6.8	6.9
9	7.1	6.9	7.0	7.2	6.9	7.1	6.9	6.7	6.8	7.0	6.8	6.9
10	7.1	6.9	7.0	7.3	6.9	7.1	7.0	6.7	6.9	7.0	6.8	6.9
11	7.0	6.9	6.9	7.1	6.9	7.0	7.0	6.8	6.9	7.0	6.8	6.9
12	7.0	6.8	6.9	7.2	6.8	7.0	7.0	6.7	6.8	7.0	6.8	6.9
13	7.0	6.9	6.9	7.4	6.9	7.1	7.0	6.8	6.9	7.0	6.9	6.9
14	6.9	6.8	6.8	7.2	7.0	7.1	7.0	6.8	6.9	6.9	6.6	6.8
15	6.9	6.8	6.8	7.1	6.9	7.0	6.9	6.7	6.8	6.9	6.6	6.7
16	7.0	6.8	6.9	7.1	6.9	7.0	7.0	6.7	6.8	6.9	6.6	6.8
17	7.0	6.8	6.9	7.1	6.8	7.0	7.0	6.8	6.9	6.9	6.8	6.9
18	7.0	6.8	6.9	7.1	6.9	7.0	6.9	6.8	6.9	6.9	6.8	6.9
19	7.0	6.9	7.0	7.1	6.9	7.0	7.0	6.8	6.9	6.9	6.8	6.9
20	7.0	6.9	7.0	7.0	6.9	7.0	7.0	6.8	6.9	7.1	6.9	7.0
21	7.0	6.9	7.0	7.1	6.9	7.0	7.0	6.8	6.9	7.1	6.9	7.0
22	7.0	6.8	6.9	7.1	6.9	7.0	7.0	6.9	7.0	7.0	6.9	6.9
23	6.9	6.8	6.9	7.1	6.9	7.0	7.0	6.9	7.0	6.9	6.9	6.9
24	7.0	6.7	6.9	7.1	6.9	7.0	7.0	6.8	6.9	7.1	6.9	7.0
25	7.0	6.7	6.9	7.1	6.9	7.0	7.1	6.9	7.0	7.1	6.9	7.0
26	7.0	6.8	6.9	7.0	6.9	7.0	7.0	6.9	6.9	7.0	6.9	7.0
27	7.0	6.7	6.9	7.1	6.9	7.0	7.0	6.9	6.9	7.0	6.9	7.0
28	7.0	6.7	6.9	7.2	6.8	6.9	7.1	6.5	6.9	7.0	6.9	7.0
29	7.0	6.8	6.9	7.2	6.9	7.0	6.7	6.5	6.6	7.0	6.9	7.0
30	7.2	6.8	7.0	7.0	6.8	6.9	6.9	6.6	6.7	7.0	6.9	6.9
31	---	---	---	7.0	6.8	6.9	6.8	6.7	6.7	---	---	---
MONTH	7.5	6.7	6.9	7.4	6.8	7.0	7.1	6.5	6.9	7.1	6.6	6.9

01466500 McDONALDS BRANCH IN LEBANON STATE FOREST, N. J.
(Hydrologic bench-mark station)

LOCATION.--Lat 39°53'05", long 74°30'20", Burlington County, water-quality recorder at gaging station at bridge on Butterworth Road, in Lebanon State Forest.

DRAINAGE AREA.--2.31 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1963-67 (partial-record station), October 1968 to September 1971.
Water temperatures: October 1960 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum, 102 micromhos Nov. 12; minimum, 26 micromhos, Oct. 10, 12-13.
Water temperatures: Minimum, freezing point on many days during winter months.
Period of record:
Specific conductance (1968-71): Maximum, 182 micromhos June 16, 1969; minimum, 21 micromhos Sept. 27, 1970.
Water temperatures: Maximum, 22.0°C Aug. 1, 1970; minimum, freezing point on many days during winter months.

REMARKS.--Missing continuous water-quality records due to malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	POTASSIUM (K) (MG/L)
OCT. 12...	1.1	4.7	--	310	5	.2	.4	2.4	1.0
NOV. 16...	1.5	4.4	--	280	25	1.0	.8	3.0	.6
DEC. 10...	1.2	4.3	--	120	14	2.2	.5	3.0	.4
JAN. 15...	1.8	4.1	--	140	50	1.8	1.1	3.0	.7
FEB. 25...	3.1	2.3	390	180	70	1.6	1.5	2.0	1.4
MAR. 31...	2.0	2.2	420	330	35	1.3	.9	2.9	.9
APR. 27...	1.9	.0	280	150	25	1.4	.5	2.5	6.4
MAY 25...	2.2	2.5	--	--	8	1.9	1.2	2.4	.5
JUNE 29...	1.6	3.4	--	200	14	1.9	.3	2.5	.4
JULY 26...	1.2	3.6	--	250	14	1.0	.2	2.7	.5

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
OCT. 12...	1	0	1	2,6	3,5	.0	.0	.00	23
NOV. 16...	0	0	0	8.1	6.9	.1	.1	.01	18
DEC. 10...	0	0	0	6.2	4.3	.0	.0	.00	30
JAN. 15...	0	0	0	12	4.8	.2	.1	.01	22
FEB. 25...	0	0	0	15	2.7	.1	.2	.00	40
MAR. 31...	0	0	0	11	3.7	1.6	.0	.00	33
APR. 27...	0	0	0	7.4	9.5	1.0	.0	.00	39
MAY 25...	0	0	0	6.3	4.8	.3	.0	.03	34
JUNE 29...	0	0	0	2.3	4.2	.1	.0	.00	13
JULY 26...	0	0	0	1.2	4.1	.2	.0	.00	16

01466500 McDONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	TOTAL ACIDITY AS H+ (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 12...	15	2	1	--	24	4.5	30	.2	--
NOV. 16...	25	6	6	.2	68	4.0	18	.2	--
DEC. 10...	21	8	8	.1	37	4.3	12	1.0	--
JAN. 15...	28	9	9	.3	69	4.0	5	2.5	--
FEB. 25...	27	10	10	--	82	4.0	23	1.4	--
MAR. 31...	25	7	7	.2	80	4.2	25	.3	16
APR. 27...	29	6	6	.2	70	4.4	25	.3	8.0
MAY 25...	19	10	10	.2	55	4.0	25	.2	7.0
JUNE 29...	15	6	6	.1	33	4.3	15	.5	7.5
JULY 26...	14	4	4	.1	28	4.5	25	.5	6.0

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT. 12...	0	1	0	1	8	.0	--	6
JULY 26...	--	<1	--	0	1	--	1	--

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)
OCT. 12...	.00	.00	.00	.00	5.0	.00	1.2	.00	5.4

DATE	DIAZINON (UG/L)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
OCT. 12...	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	PARATHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
OCT. 12...	.00	.00	.00	.00	.00	.00	.00	.00

01466500 McDONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT. 12...	1730	14.2	24	4.0	2.6	74	46
NOV. 16...	1200	10.5	77	3.4	4.0	14	--
DEC. 10...	1500	5.9	45	5.0	4.4	1	--
JAN. 15...	1030	2.6	--	3.8	7.8	4	--
FEB. 25...	1315	1.9	100	3.9	9.4	5	--
MAR. 31...	1600	4.9	96	4.2	7.8	0	--
APR. 27...	1000	8.8	60	4.1	4.6	8	--
MAY 25...	1730	14.1	49	4.0	3.2	4	1
JUNE 29...	1200	16.1	40	3.8	4.9	--	--
JULY 26...	1100	27.4	28	4.6	1.6	10	--

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	CONCENTRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
OCT 12, 1970	1530	1.1	1	0
OCT 22.......	1645	1.5	2	.01
OCT 26.......	1645	1.2	12	.04
NOV 5.......	0745	1.5	4	.02
NOV 13.......	1645	1.6	8	.03
NOV 16.......	1200	1.7	2	.01
NOV 17.......	0745	1.6	2	.01
FEB 5, 1971	1615	1.7	13	.06
FEB 23.......	0745	3.7	3	.03
FEB 25.......	1350	3.0	1	.01
FEB 27.......	1215	3.7	2	.02
APR 6.......	1645	2.5	3	.02
APR 8.......	1515	4.8	0	0
APR 8.......	1645	5.5	4	.06
APR 29.......	1645	2.3	3	.02
MAY 17.......	0745	6.9	4	.07
JUN 1.......	0745	2.4	3	.02
JUN 17.......	1645	1.9	2	.01
JUN 29.......	1000	1.6	0	0
JUL 20.......	2130	1.6	2	.01
JUL 26.......	1100	1.2	0	0
AUG 20.......	1600	1.4	3	.01
AUG 30.......	1615	3.4	3	.03
SEP 12.......	1645	6.5	3	.05
SEP 21.......	1615	2.6	2	.01

0.8-35

58-67

01466500 McDONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	31	27	29	63	52	58	47	41	45	47	43	45
2	31	27	29	63	42	51	46	40	44	46	43	44
3	34	28	30	53	47	50	45	40	43	45	41	44
4	31	28	30	56	40	52	45	42	43	46	41	43
5	33	28	31	62	52	55	45	42	44	68	47	59
6	35	30	32	62	54	58	45	43	44	71	65	67
7	40	32	35	69	63	67	---	---	---	81	72	77
8	41	30	34	73	66	69	---	---	---	83	80	81
9	31	27	29	73	65	68	---	---	---	80	74	78
10	35	26	30	80	74	77	---	---	---	76	71	74
11	33	27	30	93	78	83	41	37	---	73	69	71
12	31	26	29	102	52	78	43	38	41	69	67	68
13	31	26	28	63	53	60	41	37	39	68	65	67
14	32	27	29	73	61	65	41	36	40	66	63	64
15	30	28	29	82	61	74	40	36	39	64	62	63
16	35	28	30	73	70	---	47	35	37	65	60	64
17	37	31	34	---	---	---	72	54	67	63	58	61
18	37	31	34	---	---	---	67	60	64	60	56	59
19	36	31	34	63	60	61	60	55	57	58	55	57
20	36	32	34	64	57	59	54	51	52	55	52	54
21	37	32	35	64	59	62	51	49	50	52	50	51
22	42	32	36	60	56	58	54	44	50	49	47	48
23	41	35	37	56	54	55	56	50	52	48	47	48
24	42	37	40	54	51	53	57	53	55	48	46	48
25	45	39	41	52	47	49	55	52	54	48	47	48
26	44	37	41	50	46	48	57	53	55	50	47	49
27	46	42	44	48	43	46	57	52	56	54	50	52
28	47	42	45	47	43	45	55	51	54	57	52	54
29	49	43	45	47	41	45	54	50	52	55	52	54
30	56	44	48	47	43	46	51	48	50	56	49	52
31	62	49	55	---	---	---	49	45	48	56	49	52
MONTH	62	26	35	102	40	59	72	35	49	83	41	58

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	51	50	51	99	97	98	76	73	75	---	---	---
2	51	49	50	98	95	97	75	72	73	---	---	---
3	49	48	49	96	94	95	77	75	77	---	---	---
4	49	47	48	97	94	96	77	75	76	---	---	---
5	49	47	48	101	95	98	76	73	75	---	---	---
6	55	45	50	99	97	98	86	73	77	---	---	---
7	60	46	52	97	95	96	96	85	90	---	---	---
8	84	61	71	95	93	94	97	93	96	---	---	---
9	86	81	84	94	91	93	94	91	93	---	---	---
10	89	85	87	92	90	91	92	90	92	---	---	---
11	90	84	87	90	88	89	90	87	88	---	---	---
12	86	82	84	88	86	87	87	84	85	---	---	---
13	84	82	83	87	85	86	84	82	83	---	---	---
14	85	83	84	87	83	85	83	82	83	---	---	---
15	84	82	83	85	79	82	82	79	81	---	---	---
16	84	82	83	84	79	83	80	78	79	---	---	---
17	84	79	81	83	82	83	78	77	77	---	---	---
18	80	77	79	83	79	81	77	76	77	---	---	---
19	80	78	79	88	78	81	77	76	76	---	---	---
20	81	79	80	87	85	86	76	75	76	---	---	---
21	84	82	83	84	82	83	77	75	75	---	---	---
22	97	84	88	83	81	82	76	75	75	---	---	---
23	100	97	98	85	81	83	75	74	---	---	---	---
24	101	100	100	84	82	83	---	---	---	---	---	---
25	101	99	100	83	81	82	---	---	---	---	---	---
26	98	95	96	81	80	81	---	---	---	---	---	---
27	96	93	---	80	79	79	---	---	---	---	---	---
28	99	93	97	79	77	78	---	---	---	---	---	---
29	---	---	---	78	76	77	---	---	---	---	---	---
30	---	---	---	77	76	77	---	---	---	---	---	---
31	---	---	---	77	75	76	---	---	---	---	---	---
MONTH	101	45	77	101	75	86	---	---	---	---	---	---

01466500 McDONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	58	57	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	54	52	53	---	---	---	---	---	---	---	---	---
13	54	51	53	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.0	11.5	12.0	12.5	11.0	12.0	8.0	7.5	7.5	3.0	2.5	3.0
2	12.5	11.0	11.5	12.0	11.5	12.0	8.5	8.0	8.5	3.0	2.5	3.0
3	14.0	12.0	13.0	12.0	11.0	11.5	9.0	7.5	8.0	3.5	2.5	3.0
4	12.5	10.5	12.0	12.0	11.0	11.5	9.5	7.5	8.5	3.5	2.5	3.0
5	12.0	9.5	10.5	12.5	10.0	11.0	8.0	7.0	7.5	4.0	3.0	3.5
6	12.0	10.5	11.5	10.5	9.0	10.0	8.0	6.5	7.0	3.0	2.0	2.5
7	13.0	11.0	12.0	11.5	9.0	10.0	---	---	---	2.0	1.0	1.5
8	12.5	11.0	12.0	10.5	9.0	9.5	---	---	---	1.0	0.5	0.5
9	13.0	11.5	12.0	10.0	8.5	9.0	---	---	---	1.5	0.5	1.0
10	13.5	12.0	12.5	11.5	9.5	10.5	---	---	---	2.0	1.0	1.5
11	13.0	12.5	13.0	12.0	10.5	11.0	6.0	5.5	---	2.5	2.0	2.5
12	13.5	12.0	12.5	12.5	12.0	12.0	7.0	6.0	6.5	3.0	2.5	2.5
13	13.5	12.5	13.0	12.5	11.5	12.0	7.0	6.5	6.5	2.5	1.5	2.0
14	14.0	13.0	13.5	11.5	11.0	11.5	7.0	6.0	6.5	2.5	1.5	2.0
15	14.0	13.0	13.5	12.0	11.5	11.5	7.5	6.0	6.5	3.0	2.5	2.5
16	13.5	11.5	12.5	11.5	10.5	---	7.0	6.0	6.5	2.5	1.0	1.5
17	11.5	10.0	11.0	---	---	---	7.5	7.0	7.5	1.5	0.5	1.0
18	12.0	9.5	10.5	---	---	---	7.5	6.5	7.0	1.5	0.5	1.0
19	11.5	9.5	10.5	9.0	8.0	8.5	7.5	6.0	7.0	1.0	0.5	0.5
20	11.0	8.5	10.0	9.5	8.0	8.5	7.5	6.5	7.0	1.0	0.5	1.0
21	12.0	10.5	11.5	9.0	8.0	8.5	6.5	5.5	6.0	2.5	0.5	1.5
22	13.0	12.0	12.5	8.5	7.5	8.0	6.5	6.0	6.0	2.5	2.0	2.5
23	13.5	12.5	13.0	9.0	7.0	8.0	6.5	6.0	6.0	3.0	2.0	2.5
24	13.0	12.5	13.0	9.0	6.5	7.0	7.0	5.5	6.0	2.5	2.0	2.0
25	13.0	12.5	13.0	6.5	5.5	6.0	5.5	5.0	5.5	3.0	2.0	2.5
26	13.0	12.5	12.5	6.5	5.5	6.0	5.0	4.0	4.5	3.0	2.0	2.5
27	13.0	11.5	12.0	7.0	6.0	6.5	4.0	3.5	3.5	3.0	1.5	2.0
28	11.5	10.0	11.0	8.0	6.5	7.0	3.5	3.0	3.0	1.5	1.0	1.0
29	11.0	9.0	10.0	8.0	7.5	7.5	3.0	2.5	3.0	2.0	0.5	1.5
30	11.5	10.0	11.0	8.5	7.5	8.0	3.0	2.5	2.5	3.0	2.0	2.5
31	12.0	10.0	11.0	---	---	---	3.0	2.5	2.5	2.5	1.5	2.0
MONTH	14.0	8.5	12.0	12.5	5.5	9.5	9.5	2.5	6.0	4.0	0.5	2.0

01466500 McDONALDS BRANCH IN LEBANON STATE FOREST, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	0.5	1.0	3.0	2.0	2.5	5.5	4.0	4.5	---	---	---
2	1.0	0.5	0.5	2.0	1.0	1.5	7.5	5.0	6.5	---	---	---
3	1.5	0	1.0	2.0	1.5	2.0	7.5	6.5	6.5	---	---	---
4	2.0	1.0	1.5	2.0	0.5	1.0	7.5	6.0	6.5	---	---	---
5	3.0	2.0	2.5	0.5	0	0.5	7.0	6.0	6.5	---	---	---
6	3.5	3.0	3.0	2.0	0	1.0	6.0	4.5	5.5	---	---	---
7	3.0	2.0	2.5	2.5	2.0	2.5	5.5	3.5	4.5	---	---	---
8	2.0	1.0	1.5	2.0	1.0	1.5	5.5	4.0	4.5	---	---	---
9	1.5	0.5	1.0	1.5	0.5	1.0	7.5	3.5	5.0	---	---	---
10	0.5	0	0.5	2.0	0.5	1.0	7.5	6.0	7.0	---	---	---
11	1.0	0	0.5	2.5	1.5	2.0	8.0	5.5	6.5	---	---	---
12	2.0	1.0	1.5	3.0	1.5	2.5	7.5	5.5	6.5	---	---	---
13	2.5	1.5	2.5	3.5	2.5	3.0	8.5	6.0	7.5	---	---	---
14	2.5	1.0	1.5	4.0	3.0	3.5	8.5	7.0	8.0	---	---	---
15	1.5	0.5	1.0	7.0	3.5	5.5	8.0	7.0	7.0	---	---	---
16	1.5	0.5	1.0	7.0	5.5	6.5	7.5	6.0	6.5	---	---	---
17	2.0	0	1.0	5.5	4.5	5.0	7.5	6.5	7.0	---	---	---
18	2.5	1.5	2.0	5.0	4.0	4.0	8.5	6.0	7.0	---	---	---
19	3.0	2.5	2.5	4.5	3.5	4.0	9.0	7.0	8.0	---	---	---
20	4.0	2.5	3.0	4.5	4.0	4.5	9.0	7.5	8.5	---	---	---
21	3.5	3.0	3.0	4.5	4.0	4.5	10.0	8.5	9.0	---	---	---
22	3.0	2.5	3.0	5.0	3.5	4.0	10.0	9.0	9.5	---	---	---
23	2.5	1.5	2.0	4.5	4.0	4.0	10.5	8.5	---	---	---	---
24	1.5	1.0	1.5	4.5	3.0	3.5	---	---	---	---	---	---
25	3.0	1.5	2.0	3.5	3.0	3.5	---	---	---	---	---	---
26	2.5	1.0	2.0	3.0	2.5	3.0	---	---	---	---	---	---
27	4.0	2.5	3.0	4.0	2.5	3.0	---	---	---	---	---	---
28	3.5	2.5	3.0	4.0	2.5	3.5	---	---	---	---	---	---
29	---	---	---	5.0	4.0	4.5	---	---	---	---	---	---
30	---	---	---	5.0	4.5	4.5	---	---	---	---	---	---
31	---	---	---	5.5	4.5	5.0	---	---	---	---	---	---
MONTH	4.0	0	2.0	7.0	0	3.0	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	15.0	14.5	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	16.0	15.0	15.5	---	---	---	---	---	---	---	---	---
13	16.0	15.5	15.5	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01467016 RANCOCAS CREEK AT WILLINGBORO, N. J.

LOCATION.--Lat 40°00'36", long 74°33'16", Burlington County, water-quality recorder at foot of J. F. Kennedy Way 1.3 miles downstream from Centerton bridge in Willingboro.
DRAINAGE AREA.--255 sq mi, approximately.
PERIOD OF RECORD.--Chemical analyses: August 1969 to September 1971.
Water temperatures: August 1969 to September 1971.
EXTREMES.--1970-71:
Specific conductance: Maximum, 207 micromhos July 17; minimum, 70 micromhos Aug. 29.
Dissolved oxygen: Maximum, 13.0 mg/l Apr. 23; minimum, 0.1 mg/l Aug. 1-6.
Temperature: Maximum, 29.0°C Aug. 9; minimum, freezing point on many days during winter months.
pH: Maximum, 7.6 Oct. 4-5; minimum, 4.3 Oct. 1-2.
Period of record:
Specific conductance: Maximum, 219 micromhos Oct. 6, 1969; minimum, 63 micromhos, Oct. 15, 1969.
Dissolved oxygen: Maximum, 13.5 mg/l Mar. 25, 1970; minimum, 0.1 mg/l Aug. 1-6, 1971.
Temperature: Maximum 29.0°C Aug. 9, 1971, minimum, freezing point on many days during winter months.
pH: Maximum, 7.6 Oct. 4-5, 1970; minimum, 4.3 Oct. 1-2, 1970.
REMARKS.--Missing continuous water-quality records due to malfunction of sensor or sampling mechanism.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
OCT. 12...	.9	600	20	10	4.0	11	--	2.8
NOV. 16...	--	--	--	12	2.8	--	4.8	--
DEC. 09...	--	--	--	13	3.9	--	6.7	--
JAN. 15...	--	--	--	9.5	2.7	--	7.8	--
FEB. 24...	5.4	--	--	11	3.0	3.8	--	3.0
MAR. 31...	--	--	--	8.0	1.8	--	15	--
APR. 22...	3.8	290	60	8.0	2.1	7.1	--	1.7
MAY 26...	--	--	--	7.0	1.5	--	7.1	--
JUNE 29...	--	--	--	9.8	3.1	--	12	--
JULY 22...	1.6	920	51	12	3.4	11	--	2.8
AUG. 19...	--	--	--	8.5	3.1	--	14	--
SEP. 24...	--	--	--	8.1	3.9	12	--	3.1

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
OCT. 12...	8	0	7	28	17	.4	5.4	.70
NOV. 16...	5	0	4	31	9.2	--	3.0	.06
DEC. 09...	14	0	11	31	12	--	2.7	.53
JAN. 15...	2	0	2	30	12	--	2.6	.18
FEB. 24...	7	0	6	30	7.9	.2	5.6	.27
MAR. 31...	5	0	4	26	9.2	--	19	.23
APR. 22...	8	0	7	24	9.7	.6	3.1	.19
MAY 26...	6	0	5	21	6.6	--	3.1	.53
JUNE 29...	20	0	16	24	13	--	4.4	.55
JULY 22...	25	0	21	27	14	.0	3.7	.65
AUG. 19...	22	0	18	23	14	--	2.5	.36
SEP. 24...	--	--	--	31	11	.3	--	--

01467016 RANCOCAS CREEK AT WILLINGBORO, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 12...	105	119	42	35	175	6.6	25	3.2	--
NOV. 16...	--	--	42	38	128	6.2	30	2.4	--
DEC. 09...	--	--	49	37	175	7.1	5	2.6	--
JAN. 15...	--	--	35	33	137	5.7	3	2.8	--
FEB. 24...	88	73	40	35	125	7.0	22	1.9	--
MAR. 31...	--	--	28	24	107	6.3	15	2.1	--
APR. 22...	74	64	29	22	113	6.9	13	2.9	7.5
MAY 26...	--	--	24	19	97	5.8	50	1.9	--
JUNE 29...	--	--	37	21	148	7.0	55	2.9	--
JULY 22...	100	89	44	24	161	7.3	40	3.4	10
AUG. 19...	--	--	34	16	138	6.5	18	3.2	--
SEP. 24...	--	--	36	--	--	--	--	.8	13

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 12...	1415	21.9	168	7.1	9.2	48500
NOV. 16...	1445	11.1	128	6.0	7.6	5000
DEC. 09...	1130	1.8	--	6.2	12.0	575
JAN. 15...	0900	.3	135	6.0	12.4	0
FEB. 24...	1430	4.5	130	5.8	10.4	--
MAR. 31...	1430	9.1	115	7.1	11.0	675
APR. 22...	1500	14.4	115	6.3	9.2	1250
MAY 26...	0830	18.6	112	6.0	3.1	270
JUNE 29...	1200	25.8	170	6.3	5.0	--
JULY 22...	0945	24.5	200	6.2	4.8	1100
AUG. 19...	0830	24.7	165	6.0	6.2	5800
SEP. 24...	1200	20.3	120	6.0	3.5	36000

01467016 RANCOCAS CREEK AT WILLINGBORO, N. J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	190	158	170	158	151	155	135	84	114	104	89	96
2	199	159	174	158	151	155	141	91	115	145	90	108
3	198	161	---	159	151	155	139	106	122	150	95	112
4	185	161	170	158	153	155	139	94	114	150	94	107
5	187	151	169	158	145	155	146	98	125	166	86	118
6	195	148	167	163	148	154	142	103	126	116	97	105
7	192	150	---	161	149	---	146	118	127	132	97	112
8	---	---	---	165	144	155	160	126	137	114	102	109
9	173	142	---	167	142	155	153	126	136	128	104	110
10	177	134	---	169	143	154	147	128	133	123	104	111
11	---	---	---	166	145	154	154	125	136	158	83	109
12	---	---	---	---	---	---	162	128	140	145	83	109
13	---	---	---	---	---	---	163	121	141	118	109	114
14	196	130	---	---	---	---	153	120	130	127	114	118
15	199	137	164	---	---	---	148	106	128	132	121	126
16	180	135	156	131	99	---	162	96	129	145	123	132
17	167	137	150	128	91	113	142	109	132	144	123	135
18	175	135	152	129	76	107	125	106	117	147	116	131
19	173	127	147	130	71	92	112	79	95	141	116	126
20	192	136	156	154	77	104	109	87	99	137	123	128
21	192	145	158	128	78	118	111	87	98	138	126	133
22	176	148	159	129	84	117	101	74	88	137	128	132
23	163	144	152	127	73	100	105	75	89	141	128	133
24	165	151	154	128	103	122	96	74	88	141	124	134
25	162	146	155	129	106	124	132	85	99	156	114	132
26	167	139	154	132	94	121	127	74	95	181	120	139
27	170	142	156	133	105	123	151	83	108	139	129	133
28	168	139	155	136	89	117	103	81	91	149	135	144
29	163	142	151	143	85	105	102	86	93	165	134	146
30	159	145	151	135	83	113	127	84	101	150	138	143
31	156	148	153	---	---	---	107	88	96	151	132	142
MONTH	199	127	---	169	71	130	163	74	114	181	83	123

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	153	130	140	---	---	---	130	114	121	---	---	---
2	145	129	135	---	---	---	128	111	120	---	---	---
3	144	131	137	---	---	---	126	94	116	---	---	---
4	149	129	137	---	---	---	130	101	118	127	117	---
5	---	---	---	116	103	---	129	101	115	131	119	126
6	---	---	---	109	91	103	132	94	115	135	124	130
7	---	---	---	119	96	106	130	100	125	138	123	131
8	---	---	---	115	101	106	130	84	105	140	128	135
9	---	---	---	125	101	109	93	72	87	145	124	136
10	---	---	---	115	89	101	---	---	---	143	114	130
11	---	---	---	116	90	103	---	---	---	148	116	130
12	---	---	---	116	90	101	---	---	---	144	119	130
13	---	---	---	123	83	105	---	---	---	145	122	131
14	---	---	---	127	97	107	---	---	---	139	117	129
15	---	---	---	123	88	107	---	---	---	141	115	128
16	---	---	---	125	90	113	---	---	---	138	111	124
17	---	---	---	150	102	122	---	---	---	120	94	107
18	---	---	---	157	109	130	---	---	---	103	84	96
19	---	---	---	171	114	134	---	---	---	97	84	92
20	---	---	---	165	112	129	---	---	---	101	90	95
21	---	---	---	164	95	126	---	---	---	103	94	99
22	132	112	---	166	98	125	---	---	---	106	97	101
23	---	---	---	171	106	123	126	115	122	109	97	102
24	---	---	---	137	99	119	129	117	124	112	98	106
25	---	---	---	148	99	121	135	118	128	115	99	107
26	---	---	---	156	108	127	---	---	---	111	104	107
27	---	---	---	165	119	138	---	---	---	121	100	115
28	---	---	---	175	115	146	---	---	---	126	114	120
29	---	---	---	174	111	136	---	---	---	129	117	123
30	---	---	---	160	111	126	---	---	---	128	114	123
31	---	---	---	126	86	112	---	---	---	124	103	115
MONTH	---	---	---	175	83	118	---	---	---	148	84	117

01467016 RANCOCAS CREEK AT WILLINGBORO, N.J.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	119	101	111	155	134	144	181	150	160	92	82	87
2	118	104	111	164	141	149	185	142	155	101	88	93
3	115	104	110	165	142	151	188	146	160	116	94	99
4	123	109	114	178	133	155	196	157	167	125	98	104
5	126	113	119	173	127	151	191	152	163	142	97	108
6	137	118	126	178	123	152	180	150	161	119	97	109
7	137	111	125	170	118	145	170	152	158	124	97	113
8	138	113	125	177	120	145	172	151	158	123	101	114
9	143	118	130	182	118	150	165	151	157	132	111	121
10	146	118	133	178	119	148	163	152	156	152	116	126
11	147	117	130	172	122	150	160	153	---	142	121	129
12	145	117	129	182	130	156	172	147	---	140	100	118
13	143	120	130	187	135	160	169	145	156	116	88	97
14	150	121	133	178	129	158	168	147	157	104	91	97
15	144	116	131	202	135	161	170	152	159	103	83	91
16	134	100	121	206	160	180	170	147	160	94	82	87
17	132	110	121	207	156	180	174	151	162	93	83	87
18	135	107	120	198	155	175	173	155	163	94	82	88
19	145	107	122	198	156	176	178	149	161	94	82	89
20	150	106	123	196	156	174	169	149	160	98	87	92
21	165	111	129	188	156	169	166	150	159	106	92	97
22	166	104	129	192	155	170	167	145	158	114	102	107
23	173	119	137	191	160	175	174	141	158	120	111	114
24	174	116	136	196	163	178	169	136	155	120	100	110
25	169	121	138	198	166	180	171	140	157	114	98	107
26	170	125	141	197	169	183	172	147	161	116	98	108
27	165	128	144	195	165	180	174	128	152	117	100	108
28	167	125	145	191	164	179	133	76	94	122	103	111
29	167	125	144	193	169	180	94	70	80	126	110	118
30	156	130	143	203	153	177	85	73	77	127	110	120
31	---	---	---	180	150	160	87	78	82	---	---	---
MONTH	174	100	128	207	118	164	196	70	148	152	82	105

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.2	6.4	7.1	8.5	7.4	8.0	8.6	7.8	8.2	12.4	11.9	12.0
2	7.8	6.5	7.1	8.0	7.2	7.6	8.4	7.8	8.0	12.2	11.7	12.0
3	7.2	6.1	---	7.4	6.5	7.0	8.1	7.7	7.9	12.2	11.7	11.9
4	7.3	5.7	6.3	7.7	6.7	7.0	9.0	7.9	8.4	12.1	11.8	11.9
5	7.1	5.6	6.3	8.1	6.9	7.5	10.5	8.6	10.0	12.1	11.7	11.9
6	6.6	5.6	6.1	8.6	7.5	8.1	11.1	10.2	10.7	12.1	11.5	11.8
7	9.0	5.2	---	8.3	6.8	---	12.1	9.2	11.6	12.3	11.3	11.7
8	---	---	---	8.1	7.0	7.5	12.2	11.5	11.9	11.3	10.7	11.0
9	---	---	---	8.3	6.9	7.8	12.1	11.3	11.7	11.7	11.1	11.4
10	7.9	4.9	---	8.2	7.3	7.7	11.7	11.0	11.4	11.8	11.1	11.4
11	---	---	---	7.6	6.7	7.2	11.5	10.8	11.1	11.8	11.1	11.4
12	---	---	---	---	---	---	11.3	10.7	11.0	11.8	11.2	11.5
13	---	---	---	---	---	---	11.2	10.6	11.0	12.1	11.7	11.9
14	6.8	4.7	---	---	---	---	11.2	10.6	11.0	12.6	11.6	12.0
15	6.2	4.9	5.5	---	---	---	11.3	10.9	11.1	11.6	11.2	11.4
16	6.6	5.3	5.8	---	---	---	11.4	11.0	11.2	12.0	11.6	11.8
17	7.9	6.3	7.1	9.4	8.5	9.0	11.6	10.6	11.1	12.1	11.4	11.8
18	8.2	7.1	7.6	8.5	8.0	8.2	10.5	9.8	10.1	11.9	11.2	11.5
19	7.5	6.1	6.7	8.5	7.7	8.1	10.3	9.9	10.0	11.7	11.3	11.5
20	7.9	6.2	7.0	8.5	8.0	8.3	10.6	10.3	10.5	11.9	11.4	11.7
21	8.8	7.0	7.6	8.8	8.3	8.6	10.8	10.6	10.7	11.8	11.1	11.5
22	8.3	7.3	7.9	8.7	8.2	8.5	11.0	10.8	10.9	11.7	11.1	11.4
23	8.0	5.9	6.9	9.4	8.4	8.8	11.1	10.9	11.0	11.6	11.0	11.3
24	7.3	5.2	6.1	10.0	9.5	9.7	11.6	11.2	11.4	11.8	11.1	11.3
25	6.5	5.8	6.0	10.2	9.7	10.0	11.9	11.3	11.5	11.5	11.3	11.4
26	6.4	5.7	6.0	10.2	9.6	9.8	11.8	11.6	11.7	11.9	11.5	11.7
27	6.6	6.0	6.2	9.8	9.2	9.5	12.2	11.9	12.1	12.5	12.2	12.4
28	7.3	6.4	6.8	9.3	8.6	9.0	12.3	12.0	12.2	12.3	11.6	12.0
29	7.3	6.6	6.9	8.9	8.3	8.7	12.5	11.8	12.2	11.9	11.1	11.5
30	7.4	6.8	7.2	8.7	8.0	8.4	12.4	11.8	12.2	11.2	10.1	10.7
31	8.2	7.0	7.4	---	---	---	12.3	11.7	12.0	10.5	10.0	10.2
MONTH	9.0	4.7	---	10.2	6.5	8.3	12.5	7.7	10.8	12.6	10.0	11.6

01467016 RANCOCAS CREEK AT WILLINGBORO, N. J.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.4	9.7	10.1	---	---	---	10.9	10.4	10.7	---	---	---
2	10.7	9.7	10.1	---	---	---	11.1	10.3	10.7	---	---	---
3	10.5	9.4	9.8	---	---	---	10.8	9.9	10.3	---	---	---
4	10.2	9.1	9.5	---	---	---	10.6	9.7	10.1	9.7	9.2	---
5	---	---	---	12.2	11.4	---	10.4	9.6	10.0	9.9	8.6	9.3
6	---	---	---	12.1	11.3	11.8	10.7	9.6	10.2	9.7	7.6	8.5
7	---	---	---	11.9	11.1	11.5	12.3	10.8	11.7	8.6	7.2	8.0
8	---	---	---	12.0	11.2	11.5	12.2	11.4	11.8	8.5	6.9	7.6
9	---	---	---	12.3	11.2	11.9	11.8	11.0	11.2	7.8	6.5	7.2
10	---	---	---	12.3	11.7	12.0	---	---	---	7.4	6.6	7.2
11	---	---	---	12.2	11.3	11.7	---	---	---	7.8	6.8	7.2
12	---	---	---	12.0	11.1	11.5	---	---	---	7.4	5.9	6.8
13	---	---	---	11.7	10.9	11.2	---	---	---	6.5	4.9	5.9
14	---	---	---	11.4	10.7	11.1	---	---	---	5.5	4.3	4.9
15	---	---	---	11.1	10.1	10.7	---	---	---	5.3	3.7	4.5
16	---	---	---	11.7	9.3	10.1	---	---	---	4.5	3.3	3.9
17	---	---	---	10.1	9.2	9.6	---	---	---	4.1	2.3	3.1
18	---	---	---	9.8	9.3	9.6	---	---	---	3.7	2.0	2.9
19	---	---	---	10.5	10.0	10.2	---	---	---	3.1	1.7	2.4
20	---	---	---	10.8	10.4	10.6	---	---	---	3.6	1.3	2.5
21	---	---	---	11.5	10.9	11.3	---	---	---	3.8	2.1	2.8
22	11.2	10.4	---	11.8	10.4	10.7	---	---	---	3.1	1.9	2.5
23	---	---	---	10.7	10.2	10.4	13.0	11.6	12.5	3.4	2.2	2.9
24	---	---	---	11.0	10.5	10.8	12.8	11.2	12.0	3.9	2.1	3.0
25	---	---	---	11.3	10.5	11.2	12.0	10.8	11.4	3.5	2.3	3.1
26	---	---	---	11.5	10.9	11.2	---	---	---	3.8	1.9	2.9
27	---	---	---	11.4	11.0	11.2	---	---	---	2.9	1.5	2.3
28	---	---	---	11.4	10.5	11.0	---	---	---	2.4	1.1	1.8
29	---	---	---	11.0	9.9	10.4	---	---	---	2.6	1.3	1.9
30	---	---	---	11.7	9.9	10.1	---	---	---	2.7	1.7	2.2
31	---	---	---	10.4	9.9	10.1	---	---	---	3.0	1.9	2.4
MONTH	---	---	---	12.3	9.2	10.9	---	---	---	9.9	1.1	4.4

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.1	2.2	2.8	2.8	0.8	2.0	1.5	0.1	0.7	2.8	1.6	2.3
2	3.1	1.7	2.7	2.5	0.7	1.7	1.4	0.1	0.6	3.3	1.8	2.5
3	3.1	1.2	2.2	3.0	0.7	1.9	1.2	0.1	0.5	3.4	2.0	2.8
4	1.9	0.6	1.2	3.5	1.0	2.4	1.3	0.1	0.6	3.4	1.7	2.9
5	1.6	0.6	1.0	4.0	1.0	2.6	1.9	0.1	0.6	3.5	1.4	2.8
6	1.6	0.8	1.1	4.7	2.0	3.5	0.9	0.1	---	3.4	2.0	2.7
7	1.7	0.8	1.2	4.8	1.5	3.7	---	---	---	3.1	1.7	2.6
8	1.8	0.9	1.3	5.2	2.4	4.2	---	---	---	3.5	1.7	2.6
9	1.5	0.5	1.1	5.3	2.4	4.1	---	---	---	2.9	0.9	2.2
10	1.9	0.2	0.8	5.4	2.5	4.0	---	---	---	2.5	0.8	1.8
11	1.5	0.3	1.1	5.0	2.4	4.1	---	---	---	2.7	0.9	1.9
12	2.2	0.5	1.6	5.5	2.8	4.0	---	---	---	3.0	1.1	2.2
13	2.1	0.7	1.5	5.8	3.5	4.6	---	---	---	3.0	0.9	2.1
14	1.8	0.7	1.3	5.9	3.6	4.7	---	---	---	2.3	0.5	1.5
15	3.9	0.9	2.1	7.7	4.6	6.0	---	---	---	2.5	0.5	1.6
16	4.1	2.9	3.4	6.2	3.7	4.8	---	---	---	2.8	0.6	1.8
17	3.3	2.2	2.7	5.5	2.7	4.1	---	---	---	2.8	1.4	2.3
18	3.3	2.0	2.6	5.3	2.3	3.9	---	---	---	3.0	1.5	2.3
19	3.1	2.2	2.6	4.9	2.2	3.6	6.9	4.7	---	3.0	1.6	2.4
20	2.9	2.0	2.5	4.2	0.8	2.9	5.9	3.2	4.7	3.0	1.6	2.4
21	2.8	1.7	2.3	3.9	1.0	2.7	4.9	2.9	4.0	2.7	1.5	2.3
22	2.4	1.4	1.9	4.1	1.4	2.9	4.7	2.5	3.7	3.0	1.7	2.5
23	2.7	1.3	1.6	4.1	1.1	2.9	5.0	3.0	3.9	3.2	1.8	2.6
24	3.7	2.3	3.1	3.8	0.8	2.7	5.6	2.8	4.3	3.8	1.9	3.0
25	3.2	1.7	2.6	3.8	0.9	2.6	6.9	3.9	5.1	4.1	2.7	3.5
26	3.3	2.0	2.8	3.2	0.9	2.3	6.5	4.2	5.3	4.0	2.6	3.4
27	3.5	1.5	2.7	3.2	0.7	2.0	5.3	3.5	4.6	4.1	2.7	3.6
28	3.7	1.9	2.7	3.5	0.6	1.9	4.6	2.2	3.4	4.1	2.7	3.5
29	3.5	1.7	2.7	4.1	0.4	2.2	2.8	1.5	2.1	3.9	2.5	3.3
30	2.8	1.1	1.9	2.8	0.5	1.7	2.7	1.5	2.2	3.8	2.5	3.4
31	---	---	---	1.9	0.2	1.2	2.7	1.5	2.2	---	---	---
MONTH	4.1	0.2	2.0	7.7	0.2	3.2	---	---	---	4.1	0.5	2.6

01467016 RANCOCAS CREEK AT WILLINGBORO, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	17.0	18.0	13.0	11.5	12.0	7.5	5.0	6.0	---	---	---
2	20.0	16.5	18.0	13.0	12.0	12.5	6.0	4.0	5.0	---	---	---
3	19.5	17.5	---	13.0	12.0	12.5	8.0	4.0	5.5	---	---	---
4	18.5	17.0	18.0	13.0	12.5	12.5	8.0	5.0	6.5	---	---	---
5	18.0	16.0	17.0	12.0	11.0	11.5	6.5	5.0	5.5	---	---	---
6	19.0	16.0	17.0	11.0	9.5	10.5	5.5	3.0	4.5	---	---	---
7	19.5	16.5	---	11.0	9.5	---	3.0	1.5	2.0	---	---	---
8	---	---	---	11.0	10.0	10.5	3.5	1.0	---	---	---	---
9	---	---	---	11.5	10.0	10.5	3.5	1.0	2.5	---	---	---
10	19.0	18.0	---	11.5	10.5	11.0	4.0	2.5	2.5	---	---	---
11	---	---	---	13.0	11.5	12.0	4.0	2.0	3.5	1.0	0	---
12	---	---	---	13.0	12.5	---	4.5	3.0	3.5	2.0	0	1.5
13	---	---	---	---	---	---	4.5	2.5	---	2.0	1.0	1.0
14	20.5	19.5	---	---	---	---	---	---	---	1.5	0.5	1.0
15	21.0	19.5	20.0	---	---	---	---	---	---	1.5	1.0	1.0
16	20.0	16.5	18.5	10.5	9.5	---	---	---	---	1.0	0.5	0.5
17	16.0	13.0	14.5	9.5	8.0	9.0	---	---	---	0.5	0.5	0.5
18	15.0	12.5	13.5	9.0	8.0	8.5	5.5	4.5	5.0	---	---	---
19	15.5	13.0	14.0	9.0	8.0	8.5	5.0	3.5	4.5	1.0	0.5	0.5
20	15.5	13.0	14.0	9.5	7.5	8.5	5.5	3.0	4.5	0.5	0	0.5
21	15.5	13.5	14.0	9.5	8.5	8.5	5.0	4.0	4.5	0.5	0.5	0.5
22	16.0	14.5	15.0	9.0	7.5	8.5	4.0	3.0	---	1.0	0.5	0.5
23	16.5	15.5	16.0	9.0	6.5	8.0	---	---	---	1.0	0.5	0.5
24	17.0	15.5	16.5	6.5	4.0	5.0	---	---	---	0.5	0.5	0.5
25	17.0	16.5	16.5	4.0	3.0	3.5	---	---	---	1.0	0.5	0.5
26	16.5	15.5	16.0	4.0	2.5	3.5	---	---	---	1.0	0.5	0.5
27	16.0	13.5	14.5	5.0	3.0	4.0	---	---	---	0.5	0	0
28	14.0	12.0	13.0	5.5	3.5	5.0	---	---	---	0.5	0	0
29	12.5	11.0	12.0	6.5	4.5	6.0	---	---	---	0.5	0	0.5
30	13.0	11.0	12.0	7.5	6.0	7.0	---	---	---	1.0	0.5	0.5
31	12.5	11.0	12.0	---	---	---	---	---	---	0.5	0.5	0.5
MONTH	21.0	11.0	---	13.0	2.5	8.5	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0	0.5	---	---	---	9.5	6.5	8.0	---	---	---
2	0.5	0	0.5	---	---	---	10.0	7.0	8.5	---	---	---
3	1.0	0	0.5	---	---	---	12.5	8.0	10.0	---	---	---
4	1.0	0.5	0.5	---	---	---	13.0	10.0	11.5	14.0	13.5	---
5	---	---	---	4.0	3.0	---	12.5	9.0	11.0	15.5	12.5	14.0
6	---	---	---	6.0	2.0	4.5	11.0	8.0	9.0	15.0	14.5	14.5
7	---	---	---	6.0	3.0	5.0	8.5	5.0	7.0	16.5	14.0	15.0
8	---	---	---	5.5	1.5	3.0	9.0	5.5	6.5	16.0	14.5	15.0
9	---	---	---	4.5	1.0	2.5	9.0	6.0	7.5	14.5	14.0	14.5
10	---	---	---	4.5	1.5	3.0	---	---	---	16.0	14.0	14.5
11	---	---	---	4.5	1.5	3.0	---	---	---	17.0	14.5	16.0
12	---	---	---	---	---	---	---	---	---	17.0	16.0	16.5
13	---	---	---	---	---	---	---	---	---	17.5	16.5	17.0
14	---	---	---	---	---	---	---	---	---	17.5	16.0	17.0
15	---	---	---	---	---	---	---	---	---	18.0	16.5	17.0
16	---	---	---	11.5	8.0	10.0	---	---	---	17.0	15.5	16.5
17	---	---	---	10.5	7.0	9.5	---	---	---	16.5	14.0	15.5
18	---	---	---	8.5	6.5	7.5	---	---	---	18.5	15.0	16.5
19	---	---	---	8.5	7.0	7.5	---	---	---	19.5	17.0	18.0
20	---	---	---	7.0	6.5	6.5	---	---	---	19.5	18.0	19.0
21	---	---	---	7.5	3.5	6.0	---	---	---	19.5	17.5	18.5
22	6.5	6.0	---	8.0	3.5	6.0	---	---	---	17.5	16.5	17.0
23	---	---	---	---	---	---	14.5	13.0	14.0	17.5	16.0	17.0
24	---	---	---	---	---	---	14.5	13.5	14.0	18.0	17.0	17.5
25	---	---	---	---	---	---	13.5	12.0	13.0	19.0	18.0	18.5
26	---	---	---	---	---	---	---	---	---	19.0	19.0	19.0
27	---	---	---	---	---	---	---	---	---	19.0	18.0	18.5
28	---	---	---	---	---	---	---	---	---	19.0	18.0	18.5
29	---	---	---	---	---	---	---	---	---	19.0	18.0	18.5
30	---	---	---	---	---	---	---	---	---	18.5	17.0	17.5
31	---	---	---	9.0	6.5	7.5	---	---	---	18.0	17.0	17.5
MONTH	---	---	---	---	---	---	---	---	---	19.5	12.5	17.0

01467016 RANCOCAS CREEK AT WILLINGBORO, N. J.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.0	17.0	18.0	26.5	25.5	26.0	25.5	25.0	25.5	22.0	20.5	21.5
2	19.5	18.0	18.5	26.5	25.5	26.5	27.5	25.0	26.0	21.5	20.5	21.0
3	20.0	19.0	19.5	26.5	24.5	25.5	27.5	25.5	26.5	22.0	20.5	21.5
4	21.5	19.5	20.5	26.0	24.5	25.5	26.5	25.5	26.0	23.0	21.5	22.0
5	22.5	21.0	21.5	26.0	24.0	25.0	27.0	25.0	25.5	23.5	22.5	23.0
6	22.5	21.5	22.0	26.0	24.5	25.5	27.5	24.5	25.5	24.5	23.5	24.0
7	23.5	22.0	22.5	26.5	25.0	26.0	28.0	24.5	25.5	24.5	24.0	24.5
8	24.0	22.5	23.5	27.0	25.5	26.5	28.5	24.5	26.5	24.5	24.0	24.5
9	24.0	22.5	23.5	27.0	26.5	27.0	29.0	25.5	27.0	25.5	24.5	25.0
10	24.0	22.5	23.0	27.5	26.5	27.0	28.5	26.0	27.0	25.5	25.0	25.5
11	25.0	22.5	23.5	27.0	25.5	26.0	27.5	26.5	---	25.5	25.0	25.0
12	25.0	22.5	23.5	25.5	24.0	25.0	27.0	25.5	---	25.0	24.5	24.5
13	24.5	23.0	24.0	25.5	24.5	25.0	27.0	25.0	26.0	24.5	23.0	23.5
14	23.5	22.5	23.0	25.5	24.5	25.0	26.5	24.5	25.5	23.0	22.5	23.0
15	22.5	20.5	21.5	25.5	24.0	25.0	26.5	25.0	26.0	23.0	22.0	22.5
16	21.5	19.0	20.5	25.5	24.0	25.0	26.5	24.5	25.5	23.0	22.0	22.5
17	22.0	20.0	21.0	25.5	24.0	25.0	26.5	24.5	25.5	23.0	22.0	22.5
18	22.0	20.0	21.5	25.5	24.0	25.0	26.0	24.5	25.5	23.0	22.5	22.5
19	23.0	21.0	22.0	25.5	24.5	25.0	26.0	24.5	25.5	23.0	22.0	22.5
20	23.5	22.0	23.0	25.0	24.5	25.0	25.5	24.5	25.0	22.5	22.0	22.0
21	24.0	23.0	23.5	25.0	24.0	24.5	26.0	24.5	25.0	22.5	22.0	22.5
22	25.0	23.5	24.0	25.5	24.5	25.0	26.0	25.0	25.5	21.5	21.0	21.0
23	25.5	24.0	24.5	26.0	24.5	25.0	26.5	25.5	25.5	21.0	20.0	21.0
24	26.0	24.5	25.0	26.0	24.5	25.0	25.0	24.0	24.5	20.5	20.0	20.0
25	26.5	25.0	25.5	27.0	25.5	26.0	24.5	23.5	24.0	20.0	19.0	19.5
26	27.0	25.5	26.0	26.5	26.0	26.0	24.5	23.5	24.0	19.5	18.0	19.0
27	27.5	26.0	26.5	27.5	25.5	26.5	24.0	22.5	23.0	19.0	18.0	18.5
28	27.5	26.5	27.0	28.0	25.5	26.0	22.5	21.0	22.0	18.5	17.5	18.5
29	27.0	25.5	26.0	26.5	26.0	26.5	22.5	21.0	22.0	19.5	18.0	19.0
30	26.0	25.0	25.5	26.0	25.5	25.5	23.0	21.0	22.0	20.0	19.0	19.5
31	---	---	---	26.0	25.0	25.5	23.0	21.5	22.0	---	---	---
MONTH	27.5	17.0	23.0	28.0	24.0	25.5	29.0	21.0	25.0	25.5	17.5	22.0

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.8	4.3	5.1	6.3	6.0	6.2	6.5	6.1	6.3	6.0	5.7	5.8
2	6.3	4.3	5.4	6.4	6.0	6.2	6.3	5.9	6.1	6.0	5.7	5.8
3	6.3	4.9	---	6.5	6.1	6.3	6.3	6.0	6.2	5.9	5.5	5.7
4	7.6	6.1	6.9	6.7	6.1	6.3	6.6	5.9	6.2	5.8	5.6	5.7
5	7.6	6.8	7.2	7.2	6.4	6.7	6.9	6.4	6.5	5.8	5.5	5.7
6	7.5	6.7	7.1	7.3	6.8	7.0	6.9	6.5	6.7	5.8	5.6	5.7
7	7.3	6.7	---	7.1	6.5	---	6.9	6.5	6.7	5.7	5.1	5.5
8	---	---	---	7.0	6.5	6.8	7.3	6.7	6.9	5.4	4.9	5.2
9	---	---	---	7.1	6.5	6.8	6.9	5.7	6.3	5.4	4.9	5.2
10	---	---	---	7.0	6.3	6.6	6.3	5.8	6.0	5.6	5.0	5.2
11	---	---	---	6.7	6.2	6.4	6.6	5.9	6.1	5.3	4.9	5.1
12	---	---	---	---	---	---	6.6	6.0	6.2	5.4	5.0	5.2
13	---	---	---	---	---	---	6.6	5.9	6.3	5.7	5.2	5.5
14	7.0	6.5	---	---	---	---	6.4	5.9	6.1	6.4	5.4	5.7
15	7.0	6.4	6.6	---	---	---	6.3	5.9	6.1	6.3	5.9	6.1
16	7.3	6.3	6.9	6.7	6.4	6.6	6.6	5.9	6.2	6.4	6.1	6.3
17	7.5	6.9	7.2	6.8	6.3	6.5	6.5	6.0	6.3	6.5	6.1	6.3
18	7.5	7.0	7.2	6.7	5.8	6.3	6.0	5.6	5.9	6.5	6.0	6.2
19	7.2	6.8	7.0	6.2	5.7	5.9	6.0	5.5	5.8	6.3	6.0	6.1
20	7.3	6.8	7.1	6.5	5.8	6.0	5.8	5.4	5.6	6.3	6.0	6.1
21	7.2	6.7	6.9	6.2	5.9	6.0	5.8	5.5	5.6	6.3	6.0	6.1
22	7.1	6.7	6.9	6.2	6.0	6.1	6.0	5.5	5.7	6.1	5.8	5.9
23	6.8	5.9	6.3	6.5	5.9	6.2	6.0	5.6	5.8	6.2	5.9	6.0
24	6.5	5.9	6.2	6.5	6.1	6.3	6.1	5.7	5.9	6.1	5.9	6.0
25	6.3	5.9	6.1	6.5	6.2	6.4	5.9	5.4	5.7	6.4	5.8	6.0
26	6.3	5.9	6.1	6.6	6.1	6.3	6.0	5.6	5.8	6.8	5.8	6.2
27	6.3	5.9	6.1	6.6	6.0	6.2	6.4	5.6	5.8	6.1	6.0	6.1
28	6.5	5.9	6.2	6.6	6.0	6.2	5.9	5.6	5.7	6.2	6.0	6.1
29	6.5	6.0	6.2	6.6	6.0	6.2	5.9	5.7	5.8	6.2	5.7	5.9
30	6.4	6.0	6.2	6.4	5.9	6.1	6.0	5.7	5.9	6.2	5.5	5.8
31	6.4	6.0	6.2	---	---	---	5.9	5.7	5.8	6.0	5.5	5.7
MONTH	7.6	4.3	---	7.3	5.7	6.3	7.3	5.4	6.1	6.8	4.9	5.8

01467016 RANCOCAS CREEK AT WILLINGBORO, N. J.--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.9	5.5	5.7	---	---	---	6.5	5.7	6.1	---	---	---
2	5.8	5.6	5.7	---	---	---	6.3	5.8	6.0	---	---	---
3	5.8	5.5	5.7	---	---	---	6.2	5.9	6.0	---	---	---
4	5.8	5.5	5.7	---	---	---	6.2	5.8	6.0	6.4	6.1	---
5	---	---	---	5.9	5.5	---	6.2	5.9	6.0	6.5	6.1	6.3
6	---	---	---	6.0	4.8	5.5	6.3	6.0	6.2	6.5	6.1	6.3
7	---	---	---	6.2	5.5	5.8	6.4	6.0	6.1	6.4	6.1	6.2
8	---	---	---	6.2	5.9	6.1	6.3	5.8	6.0	6.4	6.1	6.3
9	---	---	---	6.3	5.8	6.1	6.2	5.7	5.8	6.5	6.1	6.2
10	---	---	---	6.2	5.6	5.9	---	---	---	6.4	6.0	6.1
11	---	---	---	6.1	5.6	5.9	---	---	---	6.5	6.0	6.2
12	---	---	---	6.1	5.5	5.8	---	---	---	6.4	6.0	6.2
13	---	---	---	6.5	5.6	5.9	---	---	---	6.3	6.0	6.2
14	---	---	---	6.1	5.6	5.8	---	---	---	6.3	6.0	6.2
15	---	---	---	6.1	5.6	5.8	---	---	---	6.4	6.1	6.2
16	---	---	---	6.0	5.6	5.8	---	---	---	6.4	6.1	6.2
17	---	---	---	6.3	5.8	6.1	---	---	---	6.2	5.7	6.0
18	---	---	---	6.4	5.9	6.1	---	---	---	5.9	5.5	5.8
19	---	---	---	6.7	5.8	6.2	---	---	---	5.8	5.5	5.7
20	---	---	---	6.2	5.9	6.0	---	---	---	5.9	5.7	5.8
21	---	---	---	6.1	5.7	5.9	---	---	---	5.9	5.8	5.9
22	6.4	6.1	---	6.0	5.4	5.7	---	---	---	6.0	5.8	5.9
23	---	---	---	6.0	5.5	5.7	6.8	6.3	6.5	6.0	5.7	5.8
24	---	---	---	6.0	5.2	5.7	6.9	6.3	6.6	6.1	5.8	5.9
25	---	---	---	5.9	5.3	5.7	7.0	6.4	6.6	6.0	5.8	5.9
26	---	---	---	6.1	5.2	5.8	---	---	---	6.1	5.9	6.0
27	---	---	---	6.3	5.5	---	---	---	---	6.1	5.9	6.0
28	---	---	---	6.6	5.6	6.0	---	---	---	6.1	5.9	6.0
29	---	---	---	6.5	5.7	6.0	---	---	---	6.1	5.9	6.0
30	---	---	---	6.4	5.9	6.1	---	---	---	6.1	6.0	6.1
31	---	---	---	6.4	5.8	6.1	---	---	---	6.2	5.8	6.0
MONTH	---	---	---	6.7	4.8	5.9	---	---	---	6.5	5.5	6.1

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.0	5.8	6.0	6.2	6.0	6.1	6.2	6.0	6.0	5.6	5.2	5.4
2	5.9	5.9	5.9	6.3	6.0	6.1	6.4	6.0	6.1	5.7	5.4	5.5
3	6.1	5.9	6.0	6.3	5.9	6.1	6.2	6.0	6.1	5.8	5.4	5.6
4	6.1	5.8	5.9	6.4	5.9	6.1	6.2	6.0	6.1	5.9	5.5	5.7
5	6.0	5.9	5.9	6.4	5.9	6.1	6.2	5.8	6.0	5.9	5.5	5.7
6	6.1	5.9	6.0	6.4	5.9	6.1	6.1	5.9	6.0	6.0	5.6	5.8
7	6.1	5.9	6.0	6.4	5.9	6.1	6.2	5.9	6.0	6.0	5.7	5.8
8	6.1	5.9	6.0	6.4	5.8	6.1	6.3	6.0	6.1	6.3	6.0	6.1
9	6.2	6.0	6.1	6.3	5.8	6.1	6.3	6.1	6.1	6.3	6.0	6.2
10	6.3	6.0	6.1	6.3	5.9	6.0	6.3	6.0	6.2	6.2	5.9	6.0
11	6.3	6.0	6.2	6.3	5.8	6.1	6.3	6.0	---	6.3	5.8	6.0
12	6.2	6.1	6.2	6.3	5.9	6.1	6.5	5.9	---	6.4	5.6	6.0
13	6.2	6.0	6.1	6.3	5.9	6.1	6.6	5.9	6.2	6.4	5.8	6.0
14	6.3	6.1	6.2	6.2	5.8	6.1	6.5	5.9	6.2	7.1	5.5	6.5
15	6.3	6.0	6.2	6.2	5.9	6.0	6.5	5.9	6.1	7.2	5.0	5.9
16	6.2	5.8	6.1	6.2	5.8	6.0	6.4	5.9	6.1	6.4	5.7	5.9
17	6.2	5.9	6.0	6.2	5.8	6.0	6.4	5.8	6.1	6.5	5.8	6.1
18	6.2	5.8	6.0	6.2	5.8	6.0	6.3	5.8	6.0	6.7	5.9	6.2
19	6.2	5.8	6.0	6.1	5.8	6.0	6.2	5.8	6.0	6.5	5.8	6.2
20	6.2	5.8	6.0	6.1	5.8	5.9	6.3	5.9	6.1	6.4	5.7	6.1
21	6.2	5.9	6.0	6.2	5.9	6.0	6.2	5.9	6.0	6.3	5.7	6.0
22	6.3	5.9	6.0	6.3	5.9	6.0	6.1	5.8	6.0	6.3	5.8	6.0
23	6.2	5.9	6.0	6.2	5.9	6.0	6.1	5.8	6.0	6.5	5.9	6.1
24	6.4	5.9	6.1	6.1	5.9	6.0	6.2	5.8	6.0	6.4	5.6	5.8
25	6.3	5.9	6.1	6.1	5.8	6.0	6.3	5.8	6.0	5.9	5.6	5.8
26	6.3	5.9	6.1	6.1	5.9	6.0	6.3	5.9	6.1	5.9	5.7	5.8
27	6.3	5.9	6.1	6.1	5.9	6.0	6.1	5.3	5.7	6.1	5.8	6.0
28	6.2	5.9	6.1	6.1	5.9	6.0	5.6	4.9	5.4	6.7	6.0	6.3
29	6.3	6.0	6.1	6.1	5.9	6.0	5.6	5.1	5.3	7.1	6.1	6.5
30	6.2	6.0	6.1	6.1	5.9	6.0	5.5	5.0	5.2	7.1	6.3	6.7
31	---	---	---	6.4	5.9	6.1	5.5	5.1	5.3	---	---	---
MONTH	6.4	5.8	6.0	6.4	5.8	6.0	6.6	4.9	5.9	7.2	5.0	6.0

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.

LOCATION.--Lat 40°01'57", long 74°59'46", Philadelphia County, water-quality recorder (40°02'05", 74°59'57") located in inactive intake building at Torresdale Filter Plant.

DRAINAGE AREA.--7,781 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1971.
Water temperatures: October 1955 to September 1957, November 1960 to September 1971.

EXTREMES,--1970-71:
Specific conductance: Maximum, 502 micromhos Feb. 5; minimum, 94 micromhos Aug. 28.
Dissolved oxygen: Maximum, 13.4 mg/l Dec. 22, Jan. 20; minimum, 1.9 mg/l June 23, 25.
Water temperatures: Maximum, 28.5°C on several days during July; minimum, freezing point on many days during winter months.
pH: Maximum, 8.0 Aug. 16, 23; minimum, 5.1 Aug. 2.
Period of record:
Specific conductance (1960-71): Maximum, 609 micromhos Jan. 18, 1970; minimum, 71 micromhos July 24, 1970.
Dissolved oxygen (1961-71): Maximum, 14.5 mg/l Feb. 4-5, 1964; minimum, 0.0 mg/l on many days during 1962 and 1965.
Water temperatures: Maximum, 29.0°C on many days in 1956, 1963, 1966, and 1968; minimum, freezing point on many days during winter months.
pH (1968-71): Maximum, 8.1 Dec. 30, 1970; minimum, 4.9 Apr. 5, 1969

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	248	213	226	153	140	147	184	144	---	256	216	222
2	237	215	225	167	146	152	---	---	---	248	219	226
3	235	215	226	163	142	154	---	---	---	276	222	235
4	234	214	223	168	150	159	---	---	---	366	225	251
5	247	216	228	173	152	165	---	---	---	363	245	267
6	498	223	323	173	167	170	---	---	---	259	225	240
7	257	223	234	178	169	173	186	175	---	254	218	226
8	250	222	231	182	173	179	190	169	180	268	211	225
9	254	219	232	185	173	179	189	175	181	290	208	223
10	252	228	237	197	179	187	191	179	185	337	209	225
11	252	229	237	195	175	189	195	179	187	294	208	222
12	247	227	234	190	179	186	197	182	189	266	203	217
13	251	226	237	189	179	185	200	187	192	255	200	212
14	264	231	242	190	187	189	217	179	191	232	199	---
15	292	230	244	187	167	178	207	179	192	268	216	---
16	250	225	236	169	149	158	213	179	194	446	206	237
17	246	220	230	185	145	152	203	164	184	408	207	239
18	235	221	229	164	146	152	196	179	192	340	207	232
19	233	213	223	163	145	153	199	189	193	321	209	231
20	240	212	223	160	140	150	212	189	195	275	209	223
21	240	213	223	179	137	154	209	189	195	297	210	227
22	229	141	204	170	149	157	390	187	203	284	214	228
23	216	162	200	174	155	161	252	194	208	386	217	236
24	211	189	197	171	149	161	273	202	217	301	222	239
25	203	180	191	159	145	153	269	210	221	390	227	256
26	271	149	177	151	141	146	319	209	222	458	233	267
27	169	129	149	149	136	144	316	210	226	321	241	259
28	173	125	137	150	134	145	265	213	222	327	238	259
29	157	128	135	152	134	148	263	213	225	310	238	255
30	173	132	139	154	139	150	246	213	219	341	234	253
31	153	138	144	---	---	---	249	215	222	324	231	249
MONTH	498	125	213	197	134	163	390	144	---	458	199	237

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	298	228	245	223	150	164	172	159	167	---	---	---
2	296	230	242	304	132	160	174	163	170	---	---	---
3	282	232	245	192	126	138	179	99	171	254	194	---
4	273	237	248	160	142	154	176	159	170	264	196	215
5	502	236	287	329	152	191	169	158	---	339	193	209
6	479	250	285	275	158	178	---	---	---	268	187	202
7	348	242	260	305	155	187	165	124	---	241	186	199
8	248	152	220	250	159	178	165	119	133	270	188	201
9	232	215	225	216	139	168	206	121	140	233	189	199
10	230	208	218	215	160	172	216	133	147	217	192	199
11	249	199	213	247	159	175	188	135	147	231	189	202
12	254	193	207	243	139	173	242	134	152	345	194	214
13	339	139	211	238	156	173	225	131	146	363	195	219
14	219	166	195	230	159	175	174	124	134	226	199	207
15	205	157	175	293	163	189	170	124	134	226	187	201
16	196	153	164	307	181	199	271	119	139	223	174	190
17	236	154	168	218	176	188	177	109	129	184	160	170
18	281	163	183	217	135	171	298	108	127	198	149	160
19	229	152	171	205	115	138	170	110	127	189	148	157
20	288	144	163	184	117	133	199	130	142	222	150	166
21	295	145	168	186	123	136	256	136	151	235	154	169
22	218	99	170	225	128	146	244	141	160	198	159	167
23	214	168	181	228	132	151	219	151	164	200	163	171
24	212	159	173	207	137	150	217	139	167	202	169	177
25	213	139	168	191	99	150	237	164	178	235	175	187
26	222	156	168	208	146	158	251	167	181	240	179	189
27	210	153	166	228	149	160	224	158	171	226	184	191
28	204	153	165	215	152	166	186	169	---	236	179	193
29	---	---	---	199	152	167	---	---	---	217	188	194
30	---	---	---	167	156	162	---	---	---	230	190	198
31	---	---	---	169	159	164	---	---	---	244	195	204
MONTH	502	99	203	329	99	165	298	99	152	363	148	191

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	234	201	208	239	214	220	236	217	230	190	137	150
2	232	203	210	238	217	221	236	228	231	184	144	156
3	267	204	216	233	219	223	237	225	229	195	153	161
4	262	209	216	237	221	225	231	217	223	189	159	166
5	239	205	213	243	223	227	234	199	213	200	163	171
6	268	202	216	242	224	229	223	191	201	170	167	---
7	235	202	210	251	226	231	209	187	196	---	---	---
8	287	205	216	244	225	232	205	179	192	223	186	---
9	246	211	219	249	226	234	208	179	189	263	189	202
10	245	216	221	250	227	234	249	173	192	234	197	206
11	258	219	226	250	226	233	304	175	193	237	179	204
12	251	223	228	269	232	250	210	170	183	215	158	199
13	252	227	234	285	246	259	195	168	179	225	181	209
14	265	192	212	272	245	254	196	169	178	---	---	---
15	207	189	199	267	242	254	206	173	180	---	---	---
16	219	198	203	276	245	253	208	169	184	---	---	---
17	219	204	208	263	244	252	215	181	188	---	---	---
18	234	207	214	270	245	252	219	187	193	---	---	---
19	248	212	219	264	244	250	211	189	196	---	---	---
20	246	216	222	271	244	251	---	---	---	---	---	---
21	258	217	225	269	240	249	---	---	---	---	---	---
22	238	219	225	264	240	249	---	---	---	---	---	---
23	242	218	226	265	241	250	238	214	---	---	---	---
24	249	216	226	271	242	251	240	217	223	---	---	---
25	246	214	225	268	201	251	238	215	224	---	---	---
26	238	211	221	265	239	250	227	216	221	---	---	---
27	243	211	221	249	240	244	228	140	202	---	---	---
28	240	212	219	256	235	244	205	94	162	---	---	---
29	236	212	219	285	235	245	169	110	122	---	---	---
30	236	213	219	238	203	227	155	114	125	---	---	---
31	---	---	---	230	206	219	172	127	140	---	---	---
MONTH	287	189	218	285	201	241	304	94	192	---	---	---

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.3	4.2	5.3	7.4	7.2	7.3	11.9	11.3	---	12.9	12.5	12.6
2	6.2	4.4	5.3	7.3	7.2	---	---	---	---	12.9	12.4	12.6
3	6.7	4.1	5.5	---	---	---	---	---	---	12.9	12.4	12.6
4	6.8	5.1	5.8	---	---	---	---	---	---	12.8	12.4	12.6
5	7.2	5.3	6.0	---	---	---	---	---	---	12.9	12.5	12.7
6	6.1	4.5	5.0	---	---	---	---	---	---	13.0	12.7	12.9
7	7.4	5.3	6.0	---	---	---	11.6	11.2	---	13.2	12.9	13.0
8	7.3	5.1	6.0	---	---	---	11.7	10.9	11.3	13.0	12.8	12.9
9	6.9	4.7	5.8	---	---	---	11.9	11.0	11.3	13.0	12.7	12.8
10	6.5	4.8	5.8	---	---	---	11.6	11.0	11.2	13.2	12.6	12.8
11	6.2	4.8	5.6	---	---	---	11.5	10.9	11.2	12.9	12.6	12.8
12	6.0	4.7	5.4	---	---	---	11.8	11.1	11.4	13.0	12.6	12.8
13	5.4	4.4	5.0	---	---	---	11.8	11.2	11.5	13.1	12.7	12.9
14	5.5	4.0	4.8	---	---	---	12.1	11.4	11.8	13.1	12.8	---
15	5.1	4.0	4.5	---	---	---	12.0	11.6	11.9	12.7	12.5	---
16	5.8	4.1	4.7	---	---	---	12.2	11.6	11.9	12.8	12.5	12.6
17	6.1	4.6	5.1	10.4	10.0	10.2	12.3	11.8	12.0	12.8	12.2	12.5
18	6.2	4.8	5.5	10.6	10.1	10.3	12.0	11.8	11.9	12.7	12.1	12.4
19	5.8	5.2	5.5	10.8	10.2	10.5	12.0	11.7	11.8	12.9	12.6	12.7
20	5.9	4.7	5.3	11.0	10.4	10.7	12.0	11.6	11.9	13.4	12.2	12.7
21	5.7	4.7	5.3	11.1	10.7	10.9	12.0	11.6	11.8	12.4	11.9	12.2
22	6.1	5.0	5.5	11.1	10.8	11.0	13.4	11.6	11.9	12.3	12.0	12.1
23	6.0	5.2	5.5	11.2	10.9	11.0	12.3	11.6	11.9	12.3	11.7	12.1
24	5.6	5.3	5.4	11.5	11.1	11.2	12.2	11.6	11.9	12.3	11.5	12.0
25	6.5	5.2	5.6	11.7	11.2	11.4	12.3	11.8	12.0	12.9	12.2	12.5
26	8.1	6.5	7.6	11.6	11.2	11.4	12.5	11.8	12.1	13.0	12.3	12.7
27	8.1	7.8	7.9	11.7	11.2	11.5	12.8	12.0	12.2	13.2	12.6	12.9
28	8.1	7.7	7.9	11.8	11.4	11.6	12.6	12.0	12.3	13.3	12.8	13.1
29	7.9	7.8	7.9	12.0	11.5	11.8	12.7	12.0	12.4	13.1	12.5	12.8
30	7.7	7.3	7.6	12.0	11.3	11.8	12.8	12.1	12.4	12.7	12.4	12.6
31	7.5	7.3	7.4	---	---	---	12.7	12.2	12.5	12.7	12.4	12.5
MONTH	8.1	4.0	5.9	---	---	---	13.4	10.9	---	13.4	11.5	12.6

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	12.7	11.9	12.2	11.4	10.9	11.3	10.8	10.4	10.6	---	---	---
2	12.0	11.6	11.7	11.6	10.9	11.4	10.5	10.1	10.3	---	---	---
3	11.8	11.0	11.5	11.8	11.0	11.5	10.3	9.9	10.1	10.0	9.5	---
4	11.6	11.2	11.4	11.8	11.0	11.5	10.3	9.8	10.1	10.6	9.5	10.0
5	11.8	11.2	11.5	11.9	11.7	11.8	10.2	10.0	---	11.1	9.7	10.1
6	11.8	11.1	11.4	11.9	11.6	11.8	---	---	---	10.2	9.0	9.8
7	11.6	11.1	11.3	11.9	11.0	11.7	11.4	11.2	---	10.0	8.8	9.6
8	12.2	11.3	11.5	12.0	11.6	11.9	11.5	9.9	10.9	9.5	8.4	9.0
9	11.8	11.0	11.5	11.9	10.6	11.7	11.5	10.8	11.3	9.5	8.1	9.0
10	11.7	11.0	11.5	11.7	11.0	11.6	11.4	10.9	11.2	8.8	8.0	8.5
11	11.5	11.1	11.3	11.7	11.0	11.5	11.4	11.1	11.3	9.0	7.7	8.5
12	11.3	10.8	11.1	11.8	11.0	11.6	11.3	10.9	11.1	8.9	4.7	8.0
13	11.8	10.5	11.0	11.7	11.2	11.5	11.3	10.7	11.1	8.8	6.4	8.0
14	11.5	10.9	11.3	11.5	11.0	11.4	11.3	10.8	11.1	9.3	7.3	8.6
15	11.5	10.5	11.2	11.3	10.6	11.1	11.1	10.7	10.9	9.4	8.0	8.9
16	11.5	10.6	11.2	10.9	10.0	10.7	10.9	10.4	10.6	9.0	8.4	8.6
17	11.9	11.3	11.6	10.8	10.3	10.6	10.8	10.3	10.6	8.9	8.1	8.5
18	11.9	11.6	11.8	11.0	10.4	10.7	10.7	10.2	10.6	9.1	8.2	8.7
19	12.0	11.7	11.9	11.4	10.7	11.0	10.9	10.4	10.6	8.9	8.0	8.6
20	12.0	11.2	11.8	11.4	10.8	11.2	10.9	10.4	10.7	8.9	8.2	8.7
21	11.9	11.0	11.6	11.5	11.2	11.4	10.8	10.2	10.5	8.7	7.7	8.3
22	11.7	11.1	11.4	11.5	11.1	11.3	10.6	10.0	10.4	8.4	7.7	8.1
23	11.5	11.2	11.3	11.4	10.8	11.2	10.4	9.8	10.1	8.4	7.5	8.0
24	11.5	11.2	11.4	11.4	11.0	11.3	9.9	9.4	9.7	8.1	7.2	7.8
25	11.4	11.2	11.3	11.3	11.0	11.1	10.0	9.4	9.6	8.2	6.6	7.7
26	11.5	11.2	11.4	11.2	10.9	11.0	9.8	9.0	9.4	8.3	6.7	7.7
27	11.5	10.9	11.3	11.1	10.8	11.0	10.1	9.0	9.6	8.3	6.8	7.7
28	11.5	10.7	11.3	11.1	10.7	10.9	9.6	8.8	---	8.1	6.6	7.5
29	---	---	---	11.0	10.6	10.8	---	---	---	8.6	6.5	7.7
30	---	---	---	11.0	10.6	10.8	---	---	---	8.3	7.2	7.7
31	---	---	---	10.9	10.6	10.7	---	---	---	7.9	6.7	7.3
MONTH	12.7	10.5	11.5	12.0	10.0	11.3	11.5	8.8	10.5	11.1	4.7	8.5

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.9	6.7	7.1	6.5	4.4	5.1	5.6	4.1	4.8	5.4	4.5	5.0
2	8.0	6.6	7.1	6.2	4.3	4.9	6.0	4.3	5.0	5.5	4.2	5.0
3	8.2	6.8	7.4	7.3	4.7	5.6	5.7	4.1	5.0	5.4	4.3	4.8
4	8.1	6.9	7.6	7.3	5.0	6.0	4.9	3.8	4.5	4.9	4.1	4.5
5	7.7	6.3	7.3	6.7	5.1	5.8	5.1	3.4	4.3	4.8	3.9	4.4
6	7.3	6.1	6.8	6.2	4.7	5.6	4.8	3.3	4.2	4.2	3.8	---
7	6.9	5.9	6.5	6.1	4.6	5.2	4.5	3.4	3.9	7.1	5.7	---
8	6.6	5.7	6.3	6.1	4.1	5.1	4.4	3.0	3.9	7.2	4.1	5.5
9	6.4	5.3	6.0	7.2	3.8	5.3	4.8	3.2	4.3	5.9	3.8	4.6
10	6.3	4.8	5.7	7.3	3.5	5.4	5.6	3.6	4.7	5.4	4.0	4.5
11	6.1	4.2	5.5	6.1	3.3	5.0	6.2	4.2	5.1	5.5	3.8	4.6
12	6.0	4.0	5.2	6.5	3.0	5.0	6.3	4.5	5.3	5.9	4.3	4.8
13	5.6	4.0	4.8	6.1	2.5	4.7	6.8	4.7	5.5	6.1	4.3	4.9
14	5.1	3.2	4.2	5.6	3.3	4.6	6.9	5.0	5.8	7.1	5.8	6.3
15	5.3	3.0	4.3	5.1	3.0	4.0	6.9	5.4	6.0	7.0	6.4	6.8
16	4.9	3.8	4.4	5.2	2.3	3.9	10.8	6.4	8.2	6.8	6.4	6.6
17	4.7	3.5	4.1	5.1	2.8	3.9	10.0	7.8	9.0	6.7	6.5	6.6
18	5.0	3.1	3.9	4.9	2.5	3.9	9.8	7.9	8.9	6.8	6.7	---
19	4.6	2.7	3.6	4.9	2.7	4.0	9.0	7.2	8.2	---	---	---
20	4.5	2.7	3.5	4.8	2.4	4.1	---	---	---	---	---	---
21	4.4	2.6	3.5	5.2	2.5	4.3	---	---	---	---	---	---
22	4.0	2.2	3.3	5.3	2.9	4.5	---	---	---	---	---	---
23	4.1	1.9	3.2	5.5	2.8	4.4	8.7	5.8	---	---	---	---
24	4.2	2.0	3.1	5.1	2.5	4.2	8.6	4.9	6.7	---	---	---
25	4.4	1.9	3.3	5.1	2.9	4.2	8.2	5.8	6.8	---	---	---
26	4.3	2.0	3.4	5.2	3.5	4.4	6.7	5.1	6.0	---	---	---
27	4.5	2.4	3.5	4.9	3.4	4.3	5.0	3.9	4.4	---	---	---
28	5.1	3.1	4.2	5.7	3.2	4.6	4.8	3.8	4.2	---	---	---
29	5.6	2.8	4.4	6.2	3.9	4.7	4.3	3.5	3.9	---	---	---
30	6.2	4.0	4.7	5.5	3.9	4.7	5.8	3.9	5.0	---	---	---
31	---	---	---	5.5	3.5	4.4	5.4	4.6	5.1	---	---	---
MONTH	8.2	1.9	4.9	7.3	2.3	4.7	10.8	3.0	5.5	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	23.0	21.0	22.0	13.5	13.0	13.0	6.0	5.0	---	0.5	0.0	0.5
2	22.0	21.0	21.5	13.5	13.0	13.0	---	---	---	1.0	0.0	0.5
3	22.0	21.5	21.5	13.5	13.0	13.0	---	---	---	1.5	0.0	0.5
4	21.5	21.0	21.0	13.5	12.0	13.0	---	---	---	1.0	0.0	0.5
5	21.0	20.0	21.0	13.0	11.5	12.0	---	---	---	2.0	0.5	1.0
6	21.0	20.5	21.0	12.0	11.0	11.5	---	---	---	1.0	0.0	0.5
7	21.5	20.0	21.0	12.0	11.0	11.5	6.0	4.5	---	0.5	0.0	0.0
8	21.5	20.5	21.0	12.0	11.0	11.5	5.5	4.0	5.0	0.5	0.0	0.0
9	21.0	20.5	21.0	12.0	11.0	11.5	5.5	4.5	5.0	0.5	0.0	0.0
10	21.5	20.5	21.0	12.0	11.0	11.5	5.5	4.5	5.0	0.5	0.0	0.5
11	21.0	20.5	20.5	13.5	11.5	12.0	5.5	4.5	5.0	1.0	0.5	0.5
12	21.0	20.5	20.5	14.5	12.0	13.0	5.0	4.0	4.5	1.5	0.5	0.5
13	21.0	20.5	20.5	13.5	12.0	12.5	4.5	4.0	4.0	0.5	0.0	0.5
14	21.0	20.5	21.0	13.0	12.0	12.5	4.0	3.5	3.5	0.5	0.0	---
15	21.0	20.5	21.0	13.0	11.5	12.0	4.0	3.5	3.5	1.0	0.5	---
16	20.5	19.0	20.0	11.0	10.0	10.5	4.0	3.5	3.5	1.0	0.0	0.5
17	19.5	18.0	18.5	10.0	9.0	10.0	5.0	4.0	4.0	1.0	0.0	0.5
18	18.5	17.0	18.0	9.5	9.0	9.5	4.5	4.0	4.0	1.5	0.0	0.5
19	18.5	17.0	18.0	10.0	9.0	9.0	5.0	3.5	4.0	0.5	0.0	0.0
20	18.0	17.0	17.0	9.0	8.5	8.5	5.0	4.0	4.0	0.5	0.0	0.0
21	18.0	16.5	17.0	9.0	8.0	8.5	4.0	4.0	4.0	0.0	0.0	0.0
22	17.0	16.5	17.0	8.5	8.0	8.5	4.0	3.5	3.5	0.5	0.0	0.0
23	17.0	16.5	16.5	8.5	6.5	8.0	3.5	3.0	3.5	0.5	0.0	0.5
24	16.0	15.5	15.5	7.0	5.0	6.5	4.0	3.0	3.5	0.5	0.0	0.5
25	15.5	15.0	15.5	6.5	4.5	6.0	3.5	2.0	3.5	1.0	0.0	0.5
26	15.0	14.5	14.5	6.0	5.0	5.5	3.5	1.0	2.5	1.5	0.0	1.0
27	14.5	13.5	14.0	6.0	5.0	5.5	2.0	0.5	1.5	0.0	0.0	0.0
28	13.5	13.0	13.5	6.0	5.0	5.5	2.0	0.5	1.5	0.0	0.0	0.0
29	13.5	12.0	13.5	6.0	5.0	5.5	2.0	0.5	1.0	0.0	0.0	0.0
30	13.5	13.0	13.0	7.0	5.0	5.5	1.5	0.5	1.0	0.0	0.0	0.0
31	13.5	13.0	13.0	---	---	---	1.0	0.0	0.5	0.0	0.0	0.0
MONTH	23.0	12.0	18.5	14.5	4.5	10.0	6.0	0.0	---	2.0	0.0	0.5

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.0	0.0	0.0	8.0	5.0	5.5	10.0	7.0	8.0	---	---	---
2	0.0	0.0	0.0	6.0	4.0	5.0	11.0	8.5	9.0	---	---	---
3	0.0	0.0	0.0	4.5	3.5	3.5	11.5	9.0	10.0	13.0	12.0	---
4	0.0	0.0	0.0	4.0	2.0	3.0	11.0	9.5	10.0	13.0	11.5	12.0
5	0.0	0.0	0.0	3.0	0.5	1.5	10.5	9.5	---	15.0	12.0	13.0
6	0.5	0.0	0.0	4.0	2.0	2.5	---	---	---	14.0	13.0	13.5
7	0.5	0.0	0.0	5.0	2.0	3.0	8.0	7.0	---	14.0	13.0	13.5
8	2.0	0.5	0.5	3.0	2.0	3.0	7.0	6.0	6.5	14.0	13.5	13.5
9	1.0	0.0	0.5	3.5	2.0	3.0	9.0	6.5	7.5	14.0	13.5	13.5
10	0.5	0.0	0.5	4.0	3.0	3.5	9.0	8.0	8.0	14.5	13.5	14.0
11	0.5	0.0	0.0	4.5	3.5	4.0	9.5	8.0	8.5	15.5	10.0	14.5
12	1.5	0.5	1.0	5.5	3.5	4.0	10.5	8.5	9.0	16.5	15.0	15.5
13	4.0	1.0	1.5	6.0	3.5	4.5	11.5	9.0	10.0	17.0	15.0	15.5
14	3.0	1.0	1.5	6.0	4.5	5.0	11.0	9.5	10.0	16.5	15.0	15.5
15	1.5	1.0	1.5	7.0	5.0	6.0	11.0	9.5	10.0	18.0	15.5	16.5
16	2.0	0.5	1.0	8.0	6.5	7.0	11.5	10.0	10.5	16.0	14.0	15.5
17	1.5	0.5	1.0	8.5	7.0	8.0	12.0	10.0	10.5	16.0	14.0	15.0
18	3.5	1.0	1.5	9.0	6.5	7.5	11.0	10.0	10.5	16.5	14.5	15.5
19	4.0	2.0	2.5	6.5	5.0	6.0	11.5	10.0	10.5	17.0	15.5	16.0
20	5.5	2.0	3.0	5.5	4.5	5.0	11.5	10.5	11.0	18.0	16.0	16.5
21	6.0	3.0	4.0	5.5	4.0	4.5	13.5	11.0	11.5	17.0	16.5	16.5
22	5.0	4.0	4.0	6.5	4.5	5.0	12.0	11.0	11.5	18.0	16.5	17.0
23	5.0	3.5	4.0	6.0	5.0	5.5	12.0	11.0	11.5	18.0	16.5	17.5
24	4.0	3.5	4.0	6.0	5.0	5.5	13.5	11.5	12.5	19.0	17.0	18.0
25	4.0	3.5	3.5	6.5	5.5	6.0	13.0	11.5	12.0	19.5	18.0	19.0
26	4.5	3.5	4.0	6.0	5.5	6.0	12.0	11.5	12.0	19.5	18.5	19.0
27	7.0	4.0	5.0	6.5	5.5	6.0	13.5	11.5	12.0	19.0	18.0	19.0
28	8.0	4.5	5.0	8.0	6.0	6.5	12.0	12.0	---	19.5	18.0	19.0
29	---	---	---	7.0	6.0	6.5	---	---	---	19.5	18.5	18.5
30	---	---	---	8.5	6.0	6.5	---	---	---	18.5	18.0	18.5
31	---	---	---	8.5	6.0	7.0	---	---	---	19.0	17.0	18.5
MONTH	8.0	0.0	2.0	9.0	0.5	5.0	13.5	6.0	10.0	19.5	10.0	16.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	20.0	17.0	18.5	28.0	26.0	26.5	27.0	26.0	26.5	22.0	21.0	21.5
2	19.5	18.0	18.5	28.0	26.5	27.0	27.0	26.5	26.5	22.0	21.0	21.5
3	20.0	18.5	19.0	28.5	26.0	27.0	28.0	26.5	27.0	22.0	21.5	22.0
4	21.0	19.0	19.5	28.0	26.5	27.0	27.0	26.0	27.0	23.0	22.0	22.5
5	21.0	19.5	20.0	28.0	26.5	27.0	26.5	24.5	26.0	23.5	23.0	23.5
6	21.0	20.0	20.5	28.0	26.5	27.0	26.0	24.5	25.5	23.5	23.0	---
7	23.0	20.5	22.0	28.0	27.0	27.5	25.5	24.0	25.0	25.0	24.0	---
8	23.5	21.5	22.5	28.5	27.0	27.5	25.5	24.5	25.0	25.0	24.0	24.5
9	23.5	23.0	23.0	28.5	27.0	28.0	25.5	24.5	25.0	25.5	24.0	24.5
10	24.5	23.0	23.5	28.5	27.0	28.0	26.5	25.0	25.5	25.5	24.5	25.0
11	25.0	23.5	24.0	28.0	26.5	27.0	26.5	25.0	25.5	25.5	24.0	25.0
12	25.0	23.5	24.0	28.0	26.0	26.5	26.0	25.0	25.0	25.5	23.5	25.0
13	25.0	24.0	24.5	28.0	26.0	26.5	26.0	24.5	25.5	25.5	23.5	25.0
14	24.5	23.5	24.0	27.0	26.0	26.5	26.5	25.0	25.5	23.0	22.0	23.0
15	23.5	22.0	23.0	28.0	25.5	26.5	26.5	25.0	25.5	24.0	22.0	23.0
16	24.0	22.0	23.0	26.5	26.0	26.5	26.0	24.5	25.5	25.0	23.5	24.0
17	25.0	22.0	23.5	27.0	26.0	26.5	26.5	25.5	26.0	24.0	23.5	23.5
18	24.5	23.0	24.0	27.0	26.0	26.5	26.5	21.0	26.0	23.5	23.0	---
19	24.5	23.5	24.0	26.5	25.5	26.0	26.0	25.5	26.0	---	---	---
20	24.5	24.0	24.5	26.5	25.5	26.0	---	---	---	---	---	---
21	24.5	24.0	24.0	26.5	25.5	26.0	---	---	---	---	---	---
22	25.0	24.0	24.5	26.5	25.5	26.0	---	---	---	---	---	---
23	25.0	24.0	24.5	27.0	26.0	26.0	26.5	26.0	---	---	---	---
24	26.0	24.5	25.0	27.0	26.0	26.0	26.5	25.0	25.5	---	---	---
25	26.5	25.0	25.5	27.0	26.0	26.5	26.5	25.0	25.5	---	---	---
26	26.5	25.0	25.5	27.0	26.0	26.5	26.0	25.0	25.5	---	---	---
27	28.0	25.5	26.0	27.0	26.0	26.5	25.5	23.0	24.5	---	---	---
28	28.0	26.0	26.5	28.0	26.0	26.5	24.5	21.0	22.5	---	---	---
29	26.5	25.5	26.0	28.5	26.0	27.0	22.0	20.5	21.0	---	---	---
30	27.0	25.5	26.5	27.0	25.5	26.5	22.0	21.0	21.5	---	---	---
31	---	---	---	27.0	25.5	26.0	22.0	21.0	21.5	---	---	---
MONTH	28.0	17.0	23.5	28.5	25.5	26.5	28.0	20.5	25.0	---	---	---

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.1	6.9	7.0	---	---	---	---	---	---
2	---	---	---	7.3	7.0	7.1	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	7.1	7.1	---	---	---	---	---	---	---	---	---	---
28	7.1	7.0	7.1	---	---	---	---	---	---	---	---	---
29	7.1	7.0	7.0	---	---	---	---	---	---	---	---	---
30	7.1	6.9	7.0	---	---	---	---	---	---	---	---	---
31	7.1	6.9	7.0				---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	6.9	5.9	---
4	---	---	---	---	---	---	---	---	---	7.0	6.0	6.6
5	---	---	---	---	---	---	---	---	---	7.0	6.7	6.8
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	7.6	7.2	---	---	---	---
8	---	---	---	---	---	---	7.5	6.3	7.1	---	---	---
9	---	---	---	---	---	---	7.4	6.1	6.7	---	---	---
10	---	---	---	---	---	---	7.5	5.9	7.1	---	---	---
11	---	---	---	---	---	---	7.6	7.3	7.5	---	---	---
12	---	---	---	---	---	---	7.5	6.9	7.4	---	---	---
13	---	---	---	---	---	---	7.6	6.4	7.2	---	---	---
14	---	---	---	---	---	---	7.6	6.1	7.3	---	---	---
15	---	---	---	---	---	---	7.6	7.4	7.5	---	---	---
16	---	---	---	---	---	---	7.7	7.2	7.5	---	---	---
17	---	---	---	---	---	---	7.5	6.7	7.3	7.1	6.7	---
18	---	---	---	---	---	---	7.4	6.4	7.2	7.0	6.0	6.7
19	---	---	---	---	---	---	7.5	6.3	7.2	7.0	5.2	6.4
20	---	---	---	---	---	---	7.3	7.0	7.2	---	---	---
21	---	---	---	---	---	---	7.6	6.2	7.1	---	---	---
22	---	---	---	---	---	---	7.6	7.2	7.3	6.8	5.7	---
23	---	---	---	---	---	---	7.5	7.2	7.2	6.9	6.2	6.6
24	---	---	---	---	---	---	7.4	7.0	7.2	6.9	5.4	---
25	---	---	---	---	---	---	7.3	7.0	7.2	---	---	---
26	---	---	---	---	---	---	7.2	6.7	7.0	---	---	---
27	---	---	---	---	---	---	7.2	5.7	6.9	---	---	---
28	---	---	---	---	---	---	7.1	5.9	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---				---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01467030 DELAWARE RIVER AT TORRESDALE INTAKE, AT PHILADELPHIA, PA.--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	6.4	5.4	5.8	6.9	6.6	6.8
2	---	---	---	---	---	---	6.6	5.1	5.8	---	---	---
3	---	---	---	---	---	---	7.0	5.9	6.4	---	---	---
4	---	---	---	---	---	---	6.6	5.9	6.3	---	---	---
5	---	---	---	---	---	---	7.1	6.4	6.8	---	---	---
6	---	---	---	7.3	7.1	---	7.2	6.5	6.9	---	---	---
7	---	---	---	7.4	6.7	7.1	7.2	6.9	7.1	---	---	---
8	---	---	---	7.4	7.0	7.2	7.5	7.0	7.3	7.1	6.8	---
9	---	---	---	7.7	7.0	7.2	7.5	7.3	7.4	7.0	6.4	6.7
10	---	---	---	7.8	6.9	7.2	7.7	7.0	7.3	7.2	6.5	6.8
11	---	---	---	7.4	6.9	7.2	---	---	---	6.7	6.2	6.5
12	---	---	---	7.6	6.9	7.2	7.4	7.0	---	6.6	6.1	6.3
13	---	---	---	7.4	6.9	7.2	7.9	6.8	7.2	6.5	6.0	---
14	---	---	---	7.3	6.7	7.0	7.6	6.8	7.1	---	---	---
15	---	---	---	7.3	6.9	7.1	7.6	6.9	7.2	---	---	---
16	---	---	---	7.5	6.9	---	8.0	7.1	7.5	---	---	---
17	---	---	---	---	---	---	7.8	7.1	7.5	---	---	---
18	---	---	---	---	---	---	7.8	7.1	7.5	---	---	---
19	---	---	---	7.0	6.6	---	7.4	7.0	7.2	---	---	---
20	---	---	---	7.1	6.3	6.9	---	---	---	---	---	---
21	---	---	---	7.2	6.6	7.1	---	---	---	---	---	---
22	---	---	---	7.2	6.6	7.1	---	---	---	---	---	---
23	---	---	---	7.3	6.7	7.1	8.0	6.7	---	---	---	---
24	---	---	---	7.1	6.7	7.0	7.4	6.6	6.9	---	---	---
25	---	---	---	7.2	6.8	7.1	7.7	6.8	---	---	---	---
26	---	---	---	7.4	7.0	7.1	---	---	---	---	---	---
27	---	---	---	7.6	7.2	7.4	---	---	---	---	---	---
28	---	---	---	7.6	7.1	7.3	7.1	6.8	---	---	---	---
29	---	---	---	7.7	7.3	7.5	7.0	6.5	6.8	---	---	---
30	---	---	---	7.5	6.2	7.1	7.0	6.3	6.6	---	---	---
31	---	---	---	7.1	5.3	6.1	7.0	6.7	6.8			
MONTH	---	---	---	---	---	---	8.0	5.1	---	---	---	---

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.

LOCATION.--Lat 39°57'11", long 75°08'05", Philadelphia County, at center of river on a line 200 feet upstream of bridge from the north side of pier 12 North through channel station +14.3 to pierhead line on New Jersey side of river. Water-quality recorder (39°57'10", 75°08'18") located at river end of pier 11 North about 100 feet downstream from bridge.

DRAINAGE AREA.--7,993 sq mi.

PERIOD OF RECORD.--Chemical analyses: August 1949 to September 1971.

Water temperatures: November 1960 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum, 430 micromhos Oct. 14-15; minimum, 80 micromhos Aug. 30.

Dissolved oxygen: Maximum, 12.2 mg/l Jan. 8; minimum, 0.0 mg/l on many days during summer and autumn months.

Water temperatures: Maximum, 29.5°C July 9-10; minimum, 0.5°C on several days in February.

pH: Maximum, 7.3 Jan. 7-9; minimum, 6.2 May 20-23, Sept. 2.

Period of record:

Specific conductance (1963-70): Maximum, 1,450 micromhos Nov. 20, 1964; minimum, 80 micromhos Aug. 30, 1971.

Dissolved oxygen: Maximum, 14.1 mg/l Dec. 14, 1962; minimum, 0.0 mg/l on many days.

Water temperatures: Maximum, 31.0°C July 13-15, 1966, Aug. 8-11, 1968; minimum, freezing point on many days during winter months.

pH (1968-71): Maximum, 7.3 on several days in 1968, 1969 and 1971; minimum, 5.6 Feb. 27, 1970.

REMARKS.--Samples collected approximately 3 feet from bottom.

WATER QUALITY DATA. WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)
OCT. 14...	2.1	22	7.2	21	3.7	45	0	37	52	26
NOV. 05...	4.3	13	4.8	8.0	2.6	23	0	19	31	11
DEC. 08...	.0	16	5.4	10	2.3	20	0	16	46	13
JAN. 07...	.6	19	5.7	13	2.3	37	0	30	40	20
FEB. 25...	5.8	15	4.6	7.5	2.0	28	0	23	29	12
MAR. 11...	1.5	15	4.3	7.7	1.8	27	0	22	29	12
APR. 08...	4.6	11	3.6	6.7	1.2	27	0	22	21	9.1
MAY 18...	1.8	15	5.3	10	2.1	33	0	27	27	12
JUNE 08...	3.7	17	4.9	8.8	1.7	36	0	30	29	11

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TEMP-ERATURE (DEG C)
OCT. 14...	1.0	8.5	.78	187	85	48	298	8.0	3	--
NOV. 05...	.2	9.2	.84	104	52	33	154	6.9	8	14.0
DEC. 08...	1.2	6.5	.30	126	62	46	286	8.2	4	6.5
JAN. 07...	1.2	5.9	.50	141	71	41	242	7.9	4	--
FEB. 25...	1.2	8.4	--	118	57	34	151	7.9	--	--
MAR. 11...	1.2	7.2	.48	105	55	33	164	7.6	3	--
APR. 08...	.2	.1	.02	90	43	21	123	8.3	1	--
MAY 18...	.3	7.8	.52	109	60	33	170	7.2	2	18.0
JUNE 08...	.0	8.2	.64	103	63	33	179	7.4	4	22.0

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	399	352	---	249	219	234	259	243	250	320	305	314
2	406	360	383	249	225	235	261	252	257	328	310	320
3	408	365	392	255	228	240	265	255	259	330	315	322
4	400	356	383	251	230	240	262	250	257	330	315	---
5	402	352	380	243	229	237	268	255	260	350	335	---
6	411	350	384	250	230	239	268	259	262	337	318	327
7	410	359	385	259	240	---	265	258	---	327	310	321
8	409	357	383	---	---	---	285	278	---	329	300	316
9	420	350	386	271	262	---	295	280	289	329	305	317
10	405	369	---	279	268	272	298	288	293	329	305	318
11	---	---	---	282	275	279	299	285	293	325	299	313
12	410	364	---	289	280	284	305	289	299	325	299	312
13	419	365	393	290	273	---	309	294	301	321	297	309
14	430	371	399	280	269	274	304	291	300	323	299	313
15	430	360	399	272	249	266	302	279	292	325	300	317
16	418	344	387	249	222	236	307	286	295	321	295	311
17	390	337	366	228	219	223	300	282	291	322	294	313
18	388	332	363	227	219	222	283	269	277	323	300	314
19	389	330	358	229	221	224	289	275	282	326	297	315
20	400	345	371	238	221	228	287	278	280	328	300	317
21	400	340	370	239	220	227	289	275	282	333	309	322
22	390	343	370	228	220	224	292	276	286	338	312	328
23	350	289	324	230	221	226	299	282	291	342	318	---
24	319	272	289	235	223	231	298	278	288	---	---	---
25	286	258	272	242	230	236	288	272	281	275	240	---
26	270	255	264	249	235	243	289	280	285	289	250	272
27	269	245	258	249	232	241	293	283	289	275	263	269
28	260	225	247	248	231	241	299	289	293	---	---	---
29	255	219	238	248	234	241	305	294	300	286	265	---
30	255	220	238	249	239	245	310	300	306	288	265	275
31	251	219	236	---	---	---	315	300	310	281	266	275
MONTH	430	219	341	290	219	242	315	243	284	350	240	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	280	257	270	125	115	120	173	161	166	155	141	149
2	279	248	267	126	114	120	173	166	169	158	144	151
3	289	258	274	118	100	111	174	167	170	158	149	154
4	297	263	281	122	100	110	176	168	171	160	152	157
5	312	275	298	130	109	116	172	160	168	166	157	162
6	316	283	303	130	114	119	175	153	167	177	165	170
7	308	271	293	135	119	127	166	116	146	182	168	174
8	300	251	280	155	128	140	129	102	110	181	167	176
9	285	231	258	162	144	152	115	102	109	185	162	174
10	248	220	235	160	150	157	111	102	107	182	171	---
11	244	215	231	168	157	161	115	106	110	189	175	181
12	241	218	232	169	160	165	117	110	114	193	178	185
13	242	219	233	169	160	165	123	116	119	193	170	182
14	230	177	197	168	160	165	121	110	117	187	168	177
15	198	180	189	172	163	167	117	100	111	179	165	170
16	193	169	182	173	164	168	118	102	108	169	145	160
17	179	141	164	170	159	166	117	109	113	158	145	153
18	165	145	---	162	155	159	111	99	105	160	143	155
19	161	145	157	159	131	151	105	98	100	160	129	151
20	163	150	160	140	95	113	105	99	---	152	127	144
21	160	139	153	123	92	106	106	105	---	149	131	144
22	157	133	144	122	109	---	---	---	---	149	130	139
23	148	137	143	---	---	---	---	---	---	147	129	137
24	149	135	142	144	115	---	---	---	---	149	134	142
25	157	136	145	150	137	143	---	---	---	169	145	155
26	145	135	140	151	139	145	140	132	---	165	156	161
27	145	127	139	157	145	150	150	138	141	169	159	165
28	138	123	129	154	146	150	159	139	148	175	163	169
29	---	---	---	159	148	154	165	147	---	179	168	173
30	---	---	---	167	153	159	159	144	150	181	173	178
31	---	---	---	168	159	162	---	---	---	182	174	178
MONTH	316	123	209	173	92	144	176	98	---	193	127	162

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	181	173	---	283	255	272	---	---	---	142	130	137
2	193	180	---	291	260	---	---	---	---	150	139	144
3	200	175	191	299	258	276	259	231	---	155	149	153
4	208	195	202	291	261	276	269	228	244	157	156	---
5	212	204	208	290	255	273	252	214	232	---	---	---
6	219	203	212	290	260	276	245	198	218	---	---	---
7	229	212	220	293	260	276	229	185	207	175	169	---
8	231	218	225	295	269	283	220	182	203	183	175	180
9	234	150	176	299	270	---	218	180	204	189	178	184
10	166	152	160	306	272	289	218	190	207	---	---	---
11	170	155	164	306	276	290	220	185	209	---	---	---
12	173	160	168	310	280	297	220	185	205	---	---	---
13	175	163	170	318	291	304	225	190	210	191	188	---
14	180	164	---	317	285	303	227	194	213	199	184	193
15	269	253	---	319	288	304	229	191	213	194	158	178
16	267	256	262	322	291	308	230	195	213	182	149	166
17	269	255	264	319	291	307	228	195	213	173	151	165
18	272	259	266	---	---	---	239	200	219	182	158	168
19	270	264	---	328	291	---	241	210	228	179	160	167
20	---	---	---	328	280	303	242	210	224	178	160	169
21	286	273	---	318	288	302	241	211	---	178	157	167
22	290	278	284	325	288	308	---	---	---	177	160	---
23	293	289	---	329	295	312	237	215	---	---	---	---
24	292	285	289	331	293	311	248	217	234	210	195	---
25	299	288	295	330	297	312	247	218	236	210	192	201
26	303	289	298	332	300	315	250	225	242	211	200	206
27	310	292	---	329	290	312	251	200	226	219	208	211
28	270	252	---	327	297	---	200	149	166	245	214	222
29	286	258	273	331	298	---	160	90	124	249	224	233
30	286	261	275	319	294	---	140	80	112	232	223	229
31	---	---	---	---	---	---	141	126	133	---	---	---
MONTH	310	150	---	332	255	---	269	80	205	249	130	---

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.0	0.1	5.3	3.4	4.2	9.2	7.6	8.4	10.0	8.6	9.1
2	0.8	0.0	0.2	5.4	3.6	4.3	8.8	7.2	7.9	10.0	8.5	9.1
3	0.6	0.1	0.3	5.0	2.9	3.8	8.4	6.7	7.6	10.4	8.5	9.2
4	1.2	0.1	0.6	5.1	2.7	3.7	7.9	6.7	7.3	10.4	8.6	---
5	2.0	0.4	1.0	5.6	3.1	4.1	8.2	7.3	7.5	10.4	8.7	---
6	1.8	0.3	0.8	6.2	3.4	4.7	8.7	7.6	8.1	11.7	10.0	10.9
7	1.2	0.1	0.5	5.6	3.5	---	9.2	8.8	---	12.0	10.6	11.4
8	1.0	0.1	0.3	---	---	---	9.2	7.9	---	12.2	11.0	11.6
9	1.3	0.1	0.3	5.5	3.1	---	9.1	7.6	8.2	12.0	10.5	11.2
10	0.6	0.1	---	4.8	2.8	3.8	8.6	7.4	7.9	11.5	10.3	10.9
11	---	---	---	4.8	2.3	3.3	8.7	7.0	7.8	11.5	10.2	10.9
12	0.8	0.1	---	4.4	1.9	2.8	8.3	6.8	7.4	11.5	10.1	10.8
13	0.5	0.1	0.2	7.0	3.2	---	8.2	6.5	7.3	11.6	9.9	10.7
14	0.4	0.1	0.2	7.9	5.4	6.8	9.2	6.7	7.7	11.3	9.5	10.3
15	0.4	0.1	0.2	8.2	7.0	7.5	9.1	7.2	8.1	11.2	9.2	10.1
16	1.3	0.1	0.3	8.9	7.8	8.3	9.2	6.9	7.9	11.8	9.5	10.4
17	2.3	0.4	1.1	9.1	8.0	8.5	9.1	7.3	8.1	11.5	8.9	9.9
18	2.7	1.2	1.9	8.8	7.8	8.3	10.4	8.8	9.5	10.8	8.8	9.7
19	3.3	1.8	2.4	8.9	7.5	8.1	10.4	8.5	9.4	11.1	8.8	9.7
20	2.7	1.3	1.8	8.9	7.2	8.0	10.4	8.9	9.5	10.7	8.6	9.5
21	2.6	0.9	1.6	9.8	7.8	8.8	10.1	8.8	9.4	10.6	8.2	9.2
22	2.2	0.6	1.2	9.9	8.5	9.1	10.0	8.3	9.0	10.6	8.2	9.2
23	3.9	0.8	1.6	9.8	8.8	9.4	9.3	7.8	8.5	10.5	7.9	---
24	6.3	1.7	4.1	9.6	9.0	9.3	9.4	7.5	8.5	---	---	---
25	6.9	4.0	5.5	9.6	8.7	9.1	10.4	8.2	9.1	9.8	8.1	---
26	6.6	5.1	5.9	9.5	8.2	8.7	9.6	8.2	8.9	10.1	7.3	8.3
27	6.9	5.2	5.7	9.4	8.1	8.8	9.8	8.5	9.2	10.9	8.4	9.6
28	6.7	5.0	5.7	9.3	8.1	8.7	10.3	8.9	9.5	---	---	---
29	6.3	4.5	5.3	9.8	8.1	8.8	10.5	9.1	9.7	10.4	8.9	---
30	5.6	3.9	4.8	9.4	8.0	8.6	10.3	8.9	9.5	10.1	8.4	9.0
31	5.5	3.6	4.4	---	---	---	10.5	8.6	9.3	9.9	8.2	8.8
MONTH	6.9	0.0	2.1	9.9	1.9	6.9	10.5	6.5	8.5	12.2	7.3	---

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.3	8.2	8.9	11.2	10.7	10.9	9.9	8.6	9.1	6.1	3.8	4.9
2	10.3	8.2	9.0	11.1	10.6	10.8	10.0	8.4	9.1	6.1	3.6	4.9
3	10.1	7.7	8.5	11.2	10.5	10.8	9.5	8.5	9.0	6.6	4.0	5.2
4	9.2	7.1	8.0	11.1	10.4	10.8	9.5	8.3	9.0	6.6	4.2	5.4
5	8.4	6.6	7.3	11.2	10.8	11.0	10.0	8.9	9.4	6.1	4.2	5.2
6	8.9	6.4	7.4	11.2	10.5	10.9	9.9	9.0	9.4	6.3	4.2	5.2
7	9.3	6.5	7.7	11.0	10.3	10.7	10.2	9.1	9.5	6.1	3.3	4.7
8	9.0	6.3	7.5	11.6	10.6	11.2	10.6	9.5	10.3	5.5	2.8	4.2
9	11.1	6.8	9.5	11.5	11.1	11.4	10.7	9.9	10.2	5.3	2.6	3.9
10	11.1	10.1	10.5	11.2	10.7	11.0	10.6	9.8	10.3	5.7	3.9	---
11	10.9	9.6	10.2	11.1	10.4	10.7	10.5	10.0	10.2	5.2	2.9	3.9
12	10.3	8.9	9.5	10.9	10.1	10.4	10.5	9.7	10.1	5.0	2.3	3.5
13	10.0	8.3	9.0	10.9	9.9	10.4	9.9	9.3	9.6	3.9	2.0	3.0
14	10.6	8.7	10.0	10.8	9.8	10.2	9.9	8.8	9.4	4.8	2.1	3.4
15	11.3	10.4	10.8	10.6	9.8	10.1	9.8	8.9	9.3	5.9	2.5	4.1
16	11.0	10.3	10.6	10.3	9.7	10.0	9.6	8.7	9.3	6.5	4.0	5.3
17	11.0	10.0	10.4	10.0	9.5	9.8	9.7	8.6	9.1	6.3	4.5	5.2
18	11.0	10.0	---	10.0	9.5	9.7	9.3	8.3	8.9	5.9	4.2	4.8
19	11.7	10.0	---	10.2	8.9	9.4	9.4	8.3	8.9	6.5	3.9	4.8
20	---	---	---	10.5	9.5	10.0	9.1	8.1	---	5.8	3.4	4.4
21	11.7	10.7	---	10.7	10.3	10.5	8.4	7.1	7.8	4.8	2.7	3.7
22	11.4	10.1	10.6	10.7	10.4	---	8.5	7.2	---	4.9	2.6	3.5
23	11.2	9.9	10.6	---	---	---	---	---	---	5.0	2.6	3.6
24	11.2	10.5	10.9	11.2	10.7	---	---	---	---	4.5	2.7	3.3
25	11.1	10.4	10.7	11.0	10.4	10.7	---	---	---	3.9	2.2	3.0
26	11.1	10.3	10.7	10.8	10.0	10.3	7.3	6.3	---	3.5	2.2	2.7
27	11.0	10.2	10.6	10.5	9.5	9.9	7.1	5.7	6.3	2.9	1.6	2.0
28	11.2	10.3	10.7	10.2	9.2	9.6	6.1	4.7	5.4	3.1	0.9	1.7
29	---	---	---	10.5	9.0	9.7	5.8	4.4	---	2.5	0.6	1.5
30	---	---	---	10.5	9.3	9.8	6.0	3.9	4.8	2.9	1.5	2.1
31	---	---	---	10.2	9.2	9.6	---	---	---	2.9	1.6	2.1
MONTH	11.7	6.3	9.6	11.6	8.9	10.4	10.7	3.9	---	6.6	0.6	3.8

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.8	1.7	---	0.8	0.0	0.2	---	---	---	2.2	0.6	1.5
2	3.3	1.5	---	0.8	0.0	---	---	---	---	1.6	0.1	0.8
3	3.0	1.3	2.1	1.6	0.0	0.6	1.5	0.1	---	0.9	0.0	0.4
4	2.3	0.7	1.7	2.2	0.0	1.0	1.3	0.0	0.3	0.6	0.0	---
5	2.2	0.2	1.0	2.8	0.7	1.7	1.5	0.0	0.5	0.5	0.0	0.1
6	2.1	0.2	0.9	3.0	1.2	1.9	1.8	0.0	0.7	0.6	0.0	0.2
7	1.8	0.2	0.8	2.5	0.8	1.6	1.6	0.1	0.6	0.5	0.0	0.1
8	1.6	0.1	0.7	1.4	0.6	1.1	1.6	0.2	0.7	0.4	0.0	0.1
9	1.3	0.1	0.5	1.6	0.5	---	1.8	0.3	0.8	0.2	0.0	0.0
10	0.7	0.0	0.2	1.2	0.0	0.3	1.5	0.3	0.8	---	---	---
11	0.6	0.0	0.1	0.4	0.0	0.0	2.1	0.3	1.0	---	---	---
12	0.5	0.0	0.0	0.0	0.0	0.0	2.4	0.5	1.3	---	---	---
13	0.3	0.0	0.0	0.4	0.0	0.1	2.6	0.4	1.3	2.6	0.3	---
14	0.0	0.0	---	0.5	0.1	0.2	3.0	0.5	1.4	3.8	1.4	2.6
15	0.4	0.0	---	0.3	0.0	0.1	3.4	0.7	1.8	4.2	1.8	2.8
16	0.2	0.0	0.0	0.2	0.0	0.1	4.2	1.4	2.3	3.5	0.9	2.1
17	0.2	0.0	0.0	0.2	0.0	0.1	3.7	1.3	2.2	2.6	0.5	1.4
18	0.2	0.0	0.0	---	---	---	3.9	0.4	2.1	2.2	0.4	1.0
19	0.0	0.0	---	0.3	0.0	---	2.2	0.1	1.2	2.0	0.4	1.1
20	---	---	---	0.4	0.0	0.1	1.3	0.0	0.5	2.8	0.5	1.3
21	0.2	0.0	---	0.8	0.0	0.2	0.7	0.0	---	2.7	0.7	1.4
22	0.1	0.0	0.0	0.6	0.0	0.1	---	---	---	1.8	0.5	---
23	0.0	0.0	---	0.4	0.0	0.1	1.7	0.3	---	---	---	---
24	0.2	0.0	0.0	0.6	0.0	0.1	1.9	0.1	0.9	2.4	0.6	---
25	0.1	0.0	0.0	0.6	0.0	0.1	2.2	0.2	1.0	2.2	0.2	0.9
26	0.0	0.0	0.0	0.2	0.0	0.0	2.2	0.1	0.7	1.8	0.2	0.8
27	0.3	0.0	---	0.1	0.0	0.0	2.2	0.0	0.7	2.5	0.1	0.9
28	0.6	0.0	---	0.3	0.0	---	5.2	1.6	4.0	2.1	0.0	0.7
29	0.4	0.0	0.1	0.2	0.0	---	5.6	4.2	4.9	1.5	0.0	0.4
30	0.3	0.0	0.1	0.0	0.0	---	4.6	3.1	3.9	1.4	0.0	0.2
31	---	---	---	---	---	---	3.5	1.8	2.8	---	---	---
MONTH	3.3	0.0	---	3.0	0.0	---	5.6	0.0	1.5	4.2	0.0	---

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.5	24.0	24.5	15.5	14.5	15.0	8.5	7.0	8.0	3.5	3.0	3.0
2	24.0	24.0	24.0	15.0	14.5	15.0	8.5	7.0	8.0	3.0	3.0	3.0
3	24.0	23.5	24.0	15.5	15.0	15.0	8.5	8.0	8.0	3.0	2.0	3.0
4	23.5	23.0	23.0	15.0	14.5	15.0	8.5	8.0	8.0	3.0	2.0	---
5	23.0	23.0	23.0	15.0	14.0	14.5	8.0	8.0	8.0	3.5	3.0	---
6	23.0	22.0	23.0	14.5	13.5	14.0	8.0	7.0	7.5	3.0	2.0	2.5
7	23.0	22.0	23.0	14.0	13.5	---	7.0	6.5	---	3.0	1.5	2.0
8	23.0	22.0	23.0	---	---	---	7.0	6.5	---	2.0	1.5	1.5
9	23.0	23.0	23.0	14.0	14.0	---	7.0	6.5	7.0	2.0	1.5	2.0
10	23.0	23.0	---	14.5	14.0	14.0	7.0	7.0	7.0	2.0	1.5	2.0
11	---	---	---	15.0	14.0	14.5	7.0	6.5	7.0	3.0	1.5	2.0
12	23.5	23.0	---	15.0	14.5	15.0	7.0	6.5	7.0	3.0	2.0	2.5
13	23.5	23.0	23.0	14.5	13.5	---	7.0	6.5	7.0	3.0	2.0	2.5
14	23.5	23.0	23.5	14.0	13.5	13.5	7.0	6.0	6.5	3.0	2.0	2.5
15	23.5	23.0	23.0	14.0	13.5	13.5	6.5	6.0	6.5	3.5	2.0	3.0
16	23.0	21.5	22.5	13.5	12.0	13.0	6.5	6.0	6.5	3.0	2.0	2.5
17	21.5	20.0	21.0	12.0	11.5	11.5	6.5	6.0	6.5	3.0	1.5	2.0
18	20.5	19.5	20.0	11.5	11.0	11.5	6.0	5.5	6.0	3.0	1.5	2.0
19	20.0	19.5	19.5	11.5	11.0	11.0	6.0	5.5	6.0	3.0	1.0	2.0
20	19.5	19.5	19.5	11.0	10.5	11.0	6.0	5.5	5.5	3.0	1.0	2.0
21	19.5	19.0	19.5	11.0	9.5	10.0	6.0	5.5	5.5	2.0	1.5	1.5
22	19.5	19.0	19.5	10.0	9.5	9.5	6.0	5.5	5.5	3.0	1.5	2.0
23	19.5	18.5	19.0	10.0	9.0	9.5	6.0	5.5	6.0	3.0	1.5	---
24	19.0	17.0	18.5	9.0	8.5	8.5	6.0	5.0	5.5	---	---	---
25	18.5	16.5	17.0	8.5	8.0	8.5	5.5	5.0	5.0	3.0	2.0	---
26	17.0	16.5	17.0	8.5	8.0	8.5	5.0	4.5	5.0	3.0	3.0	3.0
27	17.0	16.0	16.5	8.5	8.0	8.0	4.5	4.5	4.5	3.0	1.5	2.0
28	16.5	15.0	15.5	8.5	8.0	8.0	4.5	4.0	4.5	---	---	---
29	15.5	15.0	15.5	8.5	7.0	8.0	4.5	4.0	4.0	1.0	1.0	---
30	15.5	14.5	15.0	8.5	7.0	8.0	4.0	3.5	4.0	1.5	1.0	1.5
31	15.5	14.5	15.0	---	---	---	4.0	3.0	3.5	1.5	1.0	1.5
MONTH	24.5	14.5	20.5	15.5	7.0	11.5	8.5	3.0	6.0	3.5	1.0	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1.5	0.5	1.0	5.5	5.0	5.0	8.0	6.5	7.0	13.5	13.0	13.5
2	1.5	0.5	0.5	5.5	5.5	5.5	8.5	7.0	8.0	13.5	13.0	13.5
3	1.0	0.5	0.5	5.5	4.5	5.0	9.0	8.5	8.5	13.5	13.0	13.5
4	1.0	0.5	0.5	5.0	4.0	4.5	9.5	9.0	9.0	13.5	13.0	13.5
5	1.5	0.5	1.0	4.5	3.5	4.0	10.0	9.5	9.5	14.0	13.0	13.5
6	1.5	0.5	1.0	4.0	3.5	3.5	10.0	10.0	10.0	14.0	13.5	14.0
7	1.5	0.5	1.0	4.0	3.5	4.0	9.5	8.5	9.5	14.5	14.0	14.0
8	1.5	0.5	1.0	3.5	3.5	3.5	9.0	7.0	8.0	14.5	14.0	14.5
9	2.0	1.0	1.5	4.0	3.5	3.5	8.0	7.0	7.5	14.5	14.0	14.5
10	1.5	1.0	1.5	4.5	3.5	4.0	8.0	8.0	8.0	14.5	14.5	---
11	2.0	1.0	1.5	5.0	4.0	4.5	8.5	8.0	8.0	15.0	14.5	15.0
12	2.0	1.5	2.0	5.0	4.5	4.5	9.5	8.0	8.5	15.5	15.0	15.5
13	3.0	2.0	2.5	5.0	4.5	5.0	10.5	9.0	9.5	16.0	15.5	16.0
14	3.0	2.0	2.0	5.0	5.0	5.0	10.5	10.0	10.0	16.5	16.0	16.0
15	3.0	1.5	2.5	6.5	5.0	5.5	10.5	10.0	10.0	16.5	16.0	16.5
16	3.5	3.0	3.0	7.0	6.0	6.5	11.0	10.0	10.5	17.0	16.5	16.5
17	3.0	1.5	2.5	8.0	6.5	7.0	11.0	10.5	11.0	17.0	16.5	16.5
18	3.0	1.5	---	8.5	7.0	8.0	11.5	11.0	11.0	17.0	16.0	16.5
19	3.0	3.0	3.0	8.5	8.0	8.0	11.5	11.0	11.5	18.0	16.5	17.0
20	4.0	3.0	3.5	8.0	6.0	6.5	11.5	11.5	---	18.5	16.5	17.5
21	4.0	3.5	4.0	6.0	5.5	5.5	12.0	11.5	---	18.5	17.0	17.5
22	4.5	4.0	4.0	6.5	5.0	---	---	---	---	18.0	17.0	17.5
23	5.0	4.5	4.5	---	---	---	---	---	---	18.0	17.0	17.5
24	5.0	4.5	5.0	5.5	5.5	---	---	---	---	18.5	18.0	18.0
25	5.0	4.5	5.0	6.0	5.5	5.5	---	---	---	19.0	18.5	19.0
26	5.0	4.5	4.5	6.0	5.5	5.5	13.0	13.0	---	19.5	19.0	19.0
27	5.5	4.5	5.0	6.0	5.5	6.0	13.5	13.0	13.0	19.5	19.0	19.5
28	5.0	5.0	5.0	6.5	6.0	6.0	13.5	13.0	13.5	20.0	19.0	19.5
29	---	---	---	6.5	6.0	6.5	13.5	13.5	---	20.0	19.5	19.5
30	---	---	---	7.0	6.5	6.5	13.5	13.0	13.5	19.5	19.0	19.0
31	---	---	---	7.0	6.5	6.5	---	---	---	19.5	19.0	19.0
MONTH	5.5	0.5	2.5	8.5	3.5	5.5	13.5	6.5	---	20.0	13.0	16.5

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	18.5	---	28.0	28.0	28.0	---	---	---	23.0	23.0	23.0
2	20.0	19.5	---	28.0	28.0	---	---	---	---	23.0	23.0	23.0
3	20.5	19.5	20.0	28.0	28.0	28.0	28.5	28.5	---	23.5	23.0	23.0
4	20.5	20.0	20.0	28.0	28.0	28.0	28.5	28.5	28.5	24.0	23.5	23.5
5	21.0	20.5	21.0	28.5	28.0	28.0	28.5	26.5	27.5	24.0	23.5	23.5
6	21.5	21.0	21.0	28.5	28.0	28.0	28.0	28.0	28.0	24.5	24.0	24.0
7	22.0	21.5	21.5	28.5	28.5	28.5	28.0	27.0	27.5	25.0	24.5	24.5
8	23.0	22.0	22.5	29.0	28.5	28.5	28.0	26.5	27.5	25.5	25.0	25.0
9	23.5	23.0	23.0	29.5	29.0	---	28.0	26.5	27.5	26.0	25.0	25.5
10	23.5	23.0	23.5	29.5	29.0	29.5	28.5	27.0	28.0	---	---	---
11	24.0	23.5	24.0	29.0	29.0	29.0	28.0	27.0	28.0	---	---	---
12	24.5	24.0	24.0	29.0	28.5	29.0	28.0	26.5	27.5	---	---	---
13	24.5	24.0	24.5	29.0	28.5	28.5	28.0	27.0	27.5	26.0	26.0	---
14	25.0	24.5	---	28.5	28.5	28.5	28.0	27.0	27.5	26.0	25.0	25.5
15	24.5	24.0	---	28.5	28.0	28.5	28.0	27.0	27.5	25.5	24.0	25.0
16	24.5	24.0	24.0	28.5	28.0	28.5	28.0	27.0	27.5	25.5	24.0	24.5
17	24.5	24.0	24.0	28.5	28.0	28.5	28.0	27.0	28.0	24.5	24.0	24.5
18	25.0	24.5	24.5	---	---	---	28.0	27.0	28.0	24.5	24.0	24.0
19	25.0	24.5	---	28.0	28.0	---	28.0	28.0	28.0	24.5	23.5	24.0
20	---	---	---	28.0	28.0	28.0	28.0	28.0	28.0	24.0	23.5	24.0
21	25.5	25.0	---	28.0	27.0	27.5	28.0	27.0	---	24.0	23.5	23.5
22	26.0	25.0	25.5	28.0	27.0	27.5	---	---	---	23.5	23.5	---
23	26.0	25.5	---	28.0	28.0	28.0	28.0	27.0	---	---	---	---
24	26.5	25.5	26.0	28.0	28.0	28.0	28.0	27.0	27.0	23.0	22.0	---
25	27.0	26.0	26.5	28.0	28.0	28.0	28.0	26.5	27.0	22.0	22.0	22.0
26	27.0	26.5	26.5	28.5	28.0	28.0	27.0	26.5	27.0	22.0	21.5	22.0
27	27.0	26.5	26.5	28.5	28.5	28.5	26.5	26.0	26.5	22.0	21.5	21.5
28	27.0	27.0	---	28.5	28.0	---	26.0	24.0	25.0	22.0	21.0	21.5
29	27.0	27.0	27.0	28.5	28.5	---	24.0	22.0	23.0	22.0	21.0	21.5
30	28.0	27.0	27.5	28.5	28.5	---	23.0	21.5	22.5	22.0	21.0	21.5
31	---	---	---	---	---	---	23.5	22.0	23.0	---	---	---
MONTH	28.0	18.5	---	29.5	27.0	---	28.5	21.5	27.0	26.0	21.0	---

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.6	6.7	6.5	6.5	6.5	6.8	6.7	6.8	7.0	6.9	7.0
2	6.8	6.6	6.7	6.5	6.3	6.5	6.8	6.7	6.8	7.1	6.9	7.0
3	6.8	6.6	6.7	6.5	6.4	6.5	6.8	6.7	6.7	7.1	6.9	7.0
4	6.8	6.7	6.7	6.5	6.4	6.4	6.8	6.7	6.7	7.1	7.0	---
5	6.8	6.6	6.7	6.5	6.4	6.4	6.7	6.6	6.7	7.1	6.9	---
6	6.8	6.6	6.7	6.6	6.4	6.5	6.8	6.7	6.8	7.2	7.0	7.1
7	6.7	6.6	6.7	6.5	6.5	---	6.9	6.8	---	7.3	7.1	7.2
8	6.8	6.6	6.7	---	---	---	7.0	6.8	---	7.3	7.2	7.2
9	6.8	6.6	6.7	6.8	6.6	---	7.1	6.9	7.0	7.3	7.0	7.2
10	6.7	6.6	---	6.7	6.6	6.7	7.0	6.8	6.9	7.2	7.1	7.2
11	---	---	---	6.7	6.5	6.6	7.0	6.8	6.9	7.2	7.0	7.2
12	6.8	6.7	---	6.7	6.5	6.6	7.0	6.8	6.9	7.2	7.1	7.1
13	6.8	6.7	6.8	6.8	6.7	---	6.9	6.8	6.9	7.2	7.0	7.1
14	6.8	6.7	6.8	6.9	6.8	6.9	7.0	6.8	6.9	7.1	7.0	7.1
15	6.8	6.6	6.7	6.9	6.9	6.9	7.1	6.9	7.0	7.1	7.0	7.0
16	6.8	6.7	6.8	6.9	6.9	6.9	7.1	6.9	7.0	7.2	7.0	7.0
17	6.8	6.7	6.8	6.9	6.8	6.9	7.1	7.0	7.0	7.1	6.9	7.0
18	6.8	6.7	6.8	6.9	6.8	6.9	7.2	7.0	7.1	7.1	6.9	7.0
19	6.8	6.7	6.8	6.9	6.8	6.9	7.2	7.0	7.1	7.1	6.9	7.0
20	6.8	6.7	6.8	6.9	6.8	6.9	7.1	7.0	7.1	7.1	6.9	7.0
21	6.8	6.6	6.7	7.0	6.9	7.0	7.1	7.0	7.1	7.1	6.8	7.0
22	6.8	6.6	6.7	7.0	6.9	6.9	7.1	6.9	7.0	7.2	6.8	7.0
23	6.8	6.7	6.7	7.0	6.9	7.0	7.0	6.8	7.0	7.2	6.9	---
24	6.9	6.8	6.8	7.0	6.8	6.9	7.0	6.9	7.0	---	---	---
25	6.9	6.8	6.9	7.0	6.8	6.9	7.0	6.9	7.0	7.0	6.8	---
26	6.9	6.8	6.9	6.9	6.8	6.9	7.0	6.9	7.0	7.0	6.8	6.9
27	6.8	6.8	6.8	6.9	6.8	6.9	7.0	6.9	7.0	7.1	6.9	7.0
28	6.7	6.7	6.7	6.9	6.8	6.9	7.0	6.9	7.0	---	---	---
29	6.7	6.6	6.7	6.9	6.7	6.8	7.2	6.9	7.0	7.1	6.9	---
30	6.6	6.6	6.6	6.8	6.8	6.8	7.1	7.0	7.1	7.1	6.9	7.0
31	6.6	6.5	6.5	---	---	---	7.1	6.8	7.0	7.1	6.9	7.0
MONTH	6.9	6.5	6.7	7.0	6.3	6.8	7.2	6.6	6.9	7.3	6.8	---

01467200 DELAWARE RIVER AT BENJAMIN FRANKLIN BRIDGE, AT PHILADELPHIA, PA.--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.1	6.9	7.0	6.7	6.6	6.7	6.7	6.6	6.7	6.6	6.4	6.5
2	7.2	7.0	7.1	6.7	6.6	6.7	6.7	6.6	6.7	6.6	6.4	6.5
3	7.2	6.9	7.0	6.6	6.6	6.6	6.7	6.6	6.7	6.6	6.5	6.6
4	7.1	6.8	7.0	6.6	6.5	6.5	6.7	6.6	6.7	6.6	6.5	6.6
5	7.0	6.8	6.9	6.5	6.5	6.5	6.8	6.7	6.8	6.6	6.5	6.6
6	7.1	6.8	7.0	6.5	6.5	6.5	6.8	6.7	6.8	6.6	6.5	6.4
7	7.1	6.8	7.0	6.5	6.4	6.5	6.7	6.6	6.7	6.6	6.4	6.5
8	7.2	6.9	7.0	6.8	6.5	6.7	6.7	6.7	6.7	6.6	6.4	6.5
9	7.1	6.7	6.9	6.9	6.8	6.8	6.6	6.6	6.6	6.5	6.4	6.5
10	6.9	6.8	6.8	6.8	6.7	6.8	6.6	6.5	6.6	6.5	6.5	---
11	6.9	6.7	6.8	6.8	6.7	6.8	6.7	6.5	6.6	6.5	6.4	6.5
12	6.8	6.6	6.7	6.8	6.7	6.7	6.7	6.5	6.6	6.5	6.4	6.4
13	6.7	6.6	6.7	6.8	6.7	6.8	6.7	6.6	6.7	6.5	6.4	6.4
14	6.9	6.7	6.7	6.8	6.7	6.7	6.7	6.6	6.7	6.5	6.4	6.4
15	6.9	6.7	6.8	6.8	6.7	6.7	6.7	6.5	6.6	6.5	6.4	6.4
16	6.8	6.8	6.8	6.8	6.7	6.8	6.6	6.5	6.6	6.5	6.4	6.5
17	6.9	6.7	6.8	6.8	6.7	6.8	6.6	6.5	6.6	6.4	6.4	6.4
18	6.8	6.7	---	6.9	6.8	6.8	6.6	6.5	6.6	6.4	6.4	6.4
19	6.9	6.7	6.8	6.8	6.7	6.8	6.6	6.5	6.5	6.4	6.3	6.3
20	6.8	6.7	6.7	6.7	6.7	6.7	6.5	6.5	---	6.3	6.2	6.3
21	6.7	6.6	6.7	6.7	6.6	6.7	6.4	6.4	---	6.3	6.2	6.3
22	6.7	6.6	6.7	6.7	6.7	---	---	---	---	6.3	6.2	6.3
23	6.8	6.6	6.7	---	---	---	---	---	---	6.3	6.2	6.3
24	6.8	6.7	6.7	6.8	6.6	---	---	---	---	6.4	6.3	6.4
25	6.8	6.7	6.7	6.8	6.7	6.7	---	---	---	6.5	6.3	6.4
26	6.7	6.7	6.7	6.8	6.6	6.7	6.6	6.5	---	6.4	6.4	6.4
27	6.7	6.6	6.7	6.8	6.6	6.7	6.6	6.5	6.5	6.4	6.3	6.4
28	6.7	6.6	6.7	6.7	6.6	6.7	6.6	6.4	6.5	6.4	6.3	6.4
29	---	---	---	6.7	6.6	6.7	6.6	6.5	---	6.4	6.3	6.4
30	---	---	---	6.7	6.6	6.7	6.6	6.4	6.5	6.4	6.3	6.4
31	---	---	---	6.7	6.6	6.7	---	---	---	6.4	6.3	6.4
MONTH	7.2	6.6	6.8	6.9	6.4	6.7	6.8	6.4	---	6.6	6.2	6.4

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.4	6.3	---	6.8	6.6	6.6	---	---	---	6.3	6.3	6.3
2	6.5	6.4	---	7.2	6.7	---	---	---	---	6.3	6.2	6.3
3	6.5	6.4	6.4	7.2	6.9	7.1	6.7	6.7	---	6.4	6.3	6.3
4	6.5	6.4	6.4	7.0	6.8	6.9	6.7	6.7	6.7	6.4	6.3	---
5	6.4	6.4	6.4	6.8	6.8	6.8	6.7	6.7	---	---	---	---
6	6.4	6.4	6.4	7.0	6.8	6.9	7.1	6.8	---	---	---	---
7	6.5	6.4	6.5	6.9	6.8	6.9	7.1	6.8	---	6.5	6.4	---
8	6.5	6.5	6.5	6.8	6.8	6.8	---	---	---	6.7	6.4	6.6
9	6.5	6.4	6.5	---	---	---	6.7	6.6	---	6.6	6.4	6.5
10	6.5	6.4	6.4	---	---	---	6.7	6.6	6.6	---	---	---
11	6.5	6.4	6.5	---	---	---	6.7	6.6	6.6	---	---	---
12	6.6	6.5	6.5	6.8	6.8	---	6.7	6.6	6.6	---	---	---
13	6.6	6.5	6.5	6.8	6.8	6.8	6.7	6.5	6.6	6.7	6.5	---
14	6.6	6.5	---	6.8	6.8	6.8	6.7	6.6	6.6	6.7	6.6	6.7
15	6.6	6.5	---	6.8	6.8	6.8	6.6	6.5	6.6	6.7	6.6	6.7
16	6.7	6.5	6.6	6.8	6.8	6.8	6.6	6.5	6.6	6.7	6.6	6.6
17	6.7	6.6	6.6	6.8	6.8	6.8	6.6	6.5	6.5	6.6	6.5	6.6
18	6.6	6.6	6.6	---	---	---	7.2	6.5	6.9	6.6	6.5	6.5
19	6.6	6.6	---	6.9	6.8	---	7.0	6.4	6.7	6.5	6.5	6.5
20	---	---	---	6.9	6.8	6.8	6.9	6.6	6.8	6.6	6.5	6.5
21	6.7	6.5	---	6.8	6.8	6.8	6.9	6.7	---	6.6	6.5	6.5
22	6.5	6.5	6.5	6.8	6.8	6.8	---	---	---	6.5	6.5	---
23	6.5	6.5	---	6.8	6.8	6.8	6.6	6.5	---	---	---	---
24	6.7	6.5	6.6	6.8	6.8	6.8	6.8	6.5	---	6.9	6.6	---
25	6.7	6.6	6.7	6.9	6.8	6.8	6.9	6.5	6.7	6.9	6.5	6.7
26	6.7	6.6	6.7	6.8	6.8	6.8	7.0	6.6	6.8	7.0	6.6	6.8
27	6.7	6.6	---	6.8	6.8	6.8	6.9	6.7	---	6.7	6.5	6.8
28	6.7	6.6	---	6.9	6.8	---	---	---	---	6.8	6.6	6.7
29	6.6	6.5	6.5	7.0	6.9	---	---	---	---	6.7	6.6	6.7
30	6.6	6.5	6.5	7.0	6.9	---	6.5	6.4	---	6.7	6.6	6.6
31	---	---	---	---	---	---	6.4	6.4	6.4	---	---	---
MONTH	6.7	6.3	---	7.2	6.6	---	7.2	6.4	---	7.0	6.2	---

01474703 DELAWARE RIVER AT FORT MIFFLIN, AT PHILADELPHIA, PA.

LOCATION.--Lat 39°52'45", long 75°12'11", Philadelphia County, water-quality recorder on right bank at outer end of L-shaped pier at Fort Mifflin, 0.4 mile downstream from mouth of Schuylkill River, in Philadelphia.
DRAINAGE AREA.--About 10,000 sq mi.
PERIOD OF RECORD.--Chemical analyses: July 1970 to September 1971.
EXTREMES.--1969-71:
Specific conductance: Maximum, 610 micromhos Oct. 16; minimum, 122 micromhos Sept. 14.
Period of record:
Specific conductance: Maximum, 610 micromhos Oct. 16; minimum, 122 micromhos Sept. 14.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	490	430	454	310	255	270	310	270	---	330	320	323
2	495	425	451	310	245	262	305	270	291	340	330	336
3	495	435	460	290	250	262	300	260	284	340	335	337
4	490	435	458	285	255	---	295	270	283	340	330	---
5	490	435	452	---	---	---	325	270	289	---	---	---
6	495	430	453	370	280	---	310	255	277	---	---	---
7	485	425	451	380	280	316	350	250	284	---	---	---
8	475	415	452	345	275	295	350	260	284	---	---	---
9	485	425	454	300	270	280	410	260	310	---	---	---
10	495	435	457	315	270	280	410	265	318	---	---	---
11	500	440	465	345	270	294	360	270	299	---	---	---
12	515	435	464	390	275	340	375	275	314	---	---	---
13	505	435	463	335	270	290	420	290	326	---	---	---
14	545	445	471	275	255	269	420	300	344	---	---	---
15	575	445	474	260	240	250	410	300	330	---	---	---
16	610	365	494	235	225	232	380	300	325	---	---	---
17	580	365	492	235	220	---	430	310	366	---	---	---
18	520	445	469	---	---	---	360	300	327	---	---	---
19	520	440	456	245	235	---	310	275	290	---	---	---
20	515	415	454	255	230	235	300	275	291	---	---	---
21	500	435	453	285	220	250	315	280	294	---	---	---
22	605	430	494	275	245	262	340	290	316	---	---	---
23	565	340	398	310	250	274	365	300	333	---	---	---
24	360	300	327	305	260	283	360	320	340	---	---	---
25	315	280	296	295	255	---	360	310	332	---	---	---
26	330	275	291	---	---	---	375	305	336	---	---	---
27	325	270	287	---	---	---	355	310	330	---	---	---
28	335	260	280	---	---	---	360	310	339	---	---	---
29	315	255	275	---	---	---	340	305	327	---	---	---
30	360	255	275	---	---	---	340	310	332	---	---	---
31	320	255	272	---	---	---	345	310	328	---	---	---
MONTH	610	255	416	---	---	---	430	250	315	---	---	---

01474703 DELAWARE RIVER AT FORT MIFFLIN, AT PHILADELPHIA, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	272	160	199
2	---	---	---	---	---	---	---	---	---	273	165	201
3	---	---	---	---	---	---	---	---	---	265	169	202
4	---	---	---	---	---	---	---	---	---	268	170	203
5	---	---	---	---	---	---	---	---	---	259	172	203
6	---	---	---	---	---	---	---	---	---	267	180	206
7	---	---	---	---	---	---	---	---	---	271	185	216
8	---	---	---	---	---	---	---	---	---	274	193	221
9	---	---	---	---	---	---	---	---	---	260	200	221
10	---	---	---	---	---	---	---	---	---	282	208	231
11	---	---	---	---	---	---	---	---	---	400	213	264
12	---	---	---	---	---	---	---	---	---	310	231	260
13	---	---	---	---	---	---	---	---	---	310	145	221
14	---	---	---	---	---	---	---	---	---	195	122	159
15	---	---	---	---	---	---	---	---	---	199	165	184
16	---	---	---	---	---	---	---	---	---	250	189	210
17	---	---	---	---	---	---	---	---	---	241	183	210
18	---	---	---	---	---	---	295	260	---	280	199	226
19	---	---	---	---	---	---	315	265	278	288	209	232
20	---	---	---	---	---	---	300	265	279	298	211	236
21	---	---	---	---	---	---	300	265	281	312	218	256
22	---	---	---	---	---	---	320	270	284	276	211	239
23	---	---	---	---	---	---	320	270	284	285	215	237
24	---	---	---	---	---	---	300	275	282	329	214	255
25	---	---	---	---	---	---	300	280	286	321	220	257
26	---	---	---	---	---	---	310	275	289	320	224	259
27	---	---	---	---	---	---	400	280	310	309	231	264
28	---	---	---	---	---	---	340	145	201	293	240	264
29	---	---	---	---	---	---	165	150	157	309	249	267
30	---	---	---	---	---	---	180	150	159	308	251	275
31	---	---	---	---	---	---	240	150	181	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	400	122	229

01477050 DELAWARE RIVER AT CHESTER, PA.

LOCATION.--Lat 39°50'12", long 75°22'00", Delaware County, water-quality recorder located at auxiliary tidal-gaging station at end of Reynolds Aluminum Company pier, 0.5 mile downstream from Chester Creek, in Chester.
DRAINAGE AREA.--10,300 sq mi.
PERIOD OF RECORD.--Chemical analyses: December 1961 to September 1971.
Water temperatures: December 1961 to September 1971.
EXTREMES.--1970-71:
Specific conductance: Maximum, 1,120 micromhos Oct. 3; minimum, 215 micromhos Apr. 20-23, Sept. 14.
Dissolved oxygen: Maximum, 11.1 mg/l Feb. 9; minimum, 0.2 mg/l on many days during summer months.
Water temperatures: Maximum, 28.5°C on several days during July and August; minimum, freezing point Feb. 3-4.
pH: Maximum, 8.7 Sept. 13-14; minimum, 6.2 Oct. 6-13.
Period of record:
Specific conductance: Maximum, 5,900 micromhos Oct. 7, 1965; minimum, 124 micromhos Apr. 1-2, 1963.
Dissolved oxygen: Maximum, 11.5 mg/l Jan. 28-29, 1964; minimum, 0.0 mg/l on many days.
Water temperatures: Maximum, 30.0°C July 13-14, 1966, Apr. 3-4, 1967, Aug. 4, 1968; minimum, freezing point on many days.
pH (1968-71): Maximum, 8.7 Sept. 13-14, 1971; minimum, 5.5 Dec. 10-11, 1969.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	671	591	633	313	295	304	263	257	260	317	313	314
2	687	615	653	327	303	316	267	263	265	321	313	317
3	1120	695	926	323	317	---	271	265	268	325	317	320
4	1040	639	843	---	---	---	274	269	271	327	321	322
5	967	637	747	---	---	---	279	217	274	337	325	333
6	713	647	674	---	---	---	281	271	274	329	319	323
7	747	683	712	---	---	---	285	275	280	331	323	327
8	903	671	732	---	---	---	279	275	277	339	327	334
9	751	667	706	327	309	---	283	277	280	337	329	333
10	749	665	709	313	309	311	285	281	284	333	327	331
11	751	693	716	311	301	307	287	283	285	333	327	329
12	749	689	723	303	297	301	289	285	287	331	325	327
13	731	709	---	301	289	295	291	287	289	325	321	322
14	---	---	---	289	287	288	303	287	296	327	323	324
15	---	---	---	289	287	287	299	295	297	351	323	337
16	---	---	---	285	263	275	295	291	293	351	339	345
17	---	---	---	263	257	261	297	291	293	347	337	343
18	---	---	---	259	253	256	293	289	292	363	337	350
19	---	---	---	261	257	258	295	289	293	357	343	349
20	---	---	---	259	255	258	299	295	297	343	339	341
21	733	643	613	259	253	257	321	281	308	345	339	341
22	717	549	472	257	253	255	319	315	317	347	341	343
23	531	449	482	255	243	249	317	311	313	347	341	344
24	491	473	453	249	241	246	313	305	309	347	341	345
25	487	421	389	247	239	244	309	303	306	367	345	354
26	429	319	309	253	245	248	309	303	306	363	357	---
27	317	301	309	263	253	257	311	303	307	---	---	---
28	313	293	302	265	259	262	311	307	309	---	---	---
29	314	293	303	261	257	259	321	309	315	---	---	---
30	397	297	316	265	259	261	317	311	315	---	---	---
31	311	295	303	---	---	---	317	311	314	---	---	---
MONTH	---	---	---	327	239	---	321	217	293	367	313	334

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	259	257	---	245	241	243	237	233	235
2	---	---	---	---	---	---	245	241	243	239	233	236
3	379	369	---	---	---	---	247	241	246	243	235	239
4	371	363	368	---	---	---	251	245	248	243	239	241
5	375	371	373	---	---	---	261	249	255	249	241	244
6	385	373	380	---	---	---	257	249	253	255	247	251
7	389	383	386	---	---	---	251	249	250	257	253	255
8	399	372	385	---	---	---	251	247	248	259	255	256
9	380	362	370	---	---	---	261	245	253	259	257	258
10	368	358	363	---	---	---	251	237	243	261	255	257
11	368	362	365	---	---	---	239	227	230	259	255	257
12	366	358	361	---	---	---	229	219	---	259	255	257
13	362	344	357	---	---	---	223	217	220	259	257	257
14	344	302	322	---	---	---	223	217	220	261	257	259
15	300	266	292	273	265	---	223	217	219	259	255	257
16	282	261	269	273	269	271	223	219	221	263	257	259
17	259	253	256	271	267	269	225	221	222	271	257	264
18	257	251	254	269	265	267	227	221	224	261	255	259
19	261	255	258	269	265	267	225	219	221	265	259	261
20	265	257	262	267	265	266	219	215	217	267	255	258
21	267	261	265	367	265	266	217	215	216	263	249	253
22	277	265	271	371	265	267	219	215	217	263	245	251
23	277	269	273	263	253	258	219	215	218	261	247	252
24	273	269	271	253	243	248	223	219	221	263	249	---
25	273	269	271	243	239	241	227	223	226	---	---	---
26	271	267	269	239	235	237	239	225	228	---	---	---
27	267	261	264	237	233	236	227	223	225	---	---	---
28	261	257	259	239	235	236	227	223	225	---	---	---
29	---	---	---	245	235	239	233	227	230	---	---	---
30	---	---	---	247	243	244	235	231	233	---	---	---
31	---	---	---	245	241	243	---	---	---	---	---	---
MONTH	399	251	311	---	---	---	261	215	232	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	257	249	---	333	327	332	445	423	429	239	231	234
2	263	255	259	335	331	333	431	419	427	241	229	234
3	267	261	265	339	331	335	423	413	418	235	229	231
4	269	265	267	350	337	343	417	409	414	233	229	231
5	269	265	267	369	345	359	411	367	391	233	233	---
6	271	265	---	377	353	364	373	351	365	---	---	---
7	277	265	---	359	351	356	355	343	349	251	241	---
8	269	265	266	367	355	362	347	335	342	255	241	250
9	273	263	267	379	363	372	339	335	337	259	247	254
10	283	273	277	379	369	375	337	333	335	265	253	258
11	279	275	277	385	365	376	335	331	332	263	249	255
12	279	273	277	399	377	384	333	325	330	247	233	238
13	277	275	276	401	367	387	331	321	327	247	233	238
14	283	275	277	419	391	407	333	327	331	239	215	221
15	287	279	282	425	403	415	337	327	332	219	217	218
16	291	277	284	435	411	421	341	327	335	225	217	221
17	287	283	285	485	429	460	341	331	336	235	225	231
18	291	283	288	581	447	519	341	333	336	245	235	240
19	293	287	290	613	453	550	345	335	340	253	243	250
20	293	289	291	529	443	477	347	335	343	269	253	260
21	303	293	297	545	451	486	349	341	345	263	249	258
22	299	295	297	541	445	498	351	345	347	251	247	249
23	305	299	301	569	475	524	361	347	352	255	247	252
24	309	303	306	615	517	553	369	341	362	265	255	260
25	311	307	310	611	523	566	379	357	372	269	263	266
26	313	309	311	703	593	646	381	365	374	267	263	266
27	311	305	309	631	567	590	379	317	353	279	267	271
28	315	309	312	589	543	563	311	287	298	275	269	273
29	327	313	320	609	573	584	287	233	250	283	273	280
30	331	323	328	609	503	556	245	227	235	285	279	282
31	---	---	---	485	437	448	243	237	240	---	---	---
MONTH	331	249	288	703	327	450	445	227	344	285	215	249

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.4	0.5	3.6	3.2	3.4	5.7	5.0	5.3	8.0	7.4	7.7
2	0.5	0.4	---	4.0	2.9	3.5	5.8	4.9	5.3	8.2	7.3	7.8
3	---	---	---	4.1	2.7	---	5.6	4.6	---	8.5	7.2	7.8
4	---	---	---	---	---	---	---	---	---	7.6	7.0	7.3
5	1.7	0.9	---	---	---	---	---	---	---	7.7	7.1	7.4
6	1.6	0.8	1.1	---	---	---	---	---	---	7.1	6.7	---
7	1.5	0.7	1.0	---	---	---	4.2	3.3	---	---	---	---
8	1.3	0.8	0.9	---	---	---	4.5	3.3	3.9	---	---	---
9	1.3	0.8	0.9	2.6	2.1	---	6.3	4.4	5.3	---	---	---
10	1.7	0.8	1.0	2.5	1.9	2.2	6.6	5.7	6.1	---	---	---
11	1.5	0.8	1.0	2.6	1.7	2.0	6.2	5.3	5.5	---	---	---
12	1.6	0.7	1.0	3.4	2.0	2.7	6.4	5.8	6.1	---	---	---
13	1.2	0.7	---	4.1	2.7	3.4	6.8	6.2	6.5	---	---	---
14	---	---	---	3.9	2.8	3.3	6.6	6.1	6.4	---	---	---
15	---	---	---	5.1	3.2	4.5	6.9	6.1	6.5	---	---	---
16	---	---	---	5.7	4.5	5.2	7.1	6.1	6.5	---	---	---
17	---	---	---	5.1	3.9	4.2	7.0	6.4	6.7	---	---	---
18	---	---	---	4.1	3.8	4.0	7.4	6.7	6.9	---	---	---
19	---	---	---	4.3	3.9	4.1	7.1	6.2	6.6	---	---	---
20	---	---	---	3.9	3.7	3.8	6.7	5.9	6.2	---	---	---
21	4.4	3.8	4.9	4.1	3.6	3.8	6.0	5.5	---	---	---	---
22	5.8	4.2	4.9	3.9	3.5	3.7	---	---	---	---	---	---
23	5.9	2.8	3.9	3.8	3.2	3.5	---	---	---	---	---	---
24	2.9	1.6	2.1	3.6	3.2	---	---	---	---	---	---	---
25	2.2	1.5	1.8	---	---	---	---	---	---	7.1	6.9	---
26	3.5	1.9	2.6	---	---	---	---	---	---	---	---	---
27	4.0	2.0	2.7	---	---	---	---	---	---	---	---	---
28	3.8	3.3	3.6	---	---	---	9.1	7.8	---	---	---	---
29	3.3	3.0	3.2	---	---	---	9.0	8.0	8.5	---	---	---
30	3.7	3.0	3.3	5.9	5.3	---	8.5	7.7	8.1	---	---	---
31	3.7	3.2	3.4	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.8	8.2	8.5	6.9	6.2	6.7	3.3	2.2	2.7
2	---	---	---	9.0	8.5	8.7	6.4	5.9	6.2	2.5	1.8	2.1
3	8.5	7.7	---	9.4	8.8	9.0	6.3	5.7	6.0	2.3	1.6	1.8
4	9.1	8.0	8.3	10.6	8.8	9.5	5.9	5.2	5.5	3.2	1.7	2.3
5	9.5	8.0	8.3	10.5	5.8	9.1	6.2	5.1	5.6	3.0	2.1	2.5
6	9.0	7.6	8.1	9.2	7.9	8.5	6.6	5.2	6.0	3.4	2.0	2.4
7	8.7	7.3	7.7	8.7	7.9	8.3	7.2	6.2	6.7	2.2	1.1	1.6
8	9.8	7.6	8.4	9.7	8.7	9.2	8.0	6.9	7.3	1.9	0.9	1.2
9	11.1	7.7	8.9	11.0	9.1	9.6	7.8	7.0	7.3	1.1	0.5	0.7
10	9.7	8.1	9.0	9.4	8.7	9.1	8.0	7.6	7.8	0.9	0.4	0.6
11	9.5	8.0	8.7	9.1	8.1	8.6	8.0	7.2	7.5	1.5	0.3	0.6
12	8.7	7.4	8.1	8.9	7.9	8.3	7.4	6.9	---	1.8	0.4	0.8
13	9.2	7.2	8.0	8.4	7.4	7.9	7.3	6.6	6.9	2.8	0.4	1.0
14	11.0	8.4	10.0	7.9	7.0	7.5	7.6	6.7	7.1	2.0	0.5	1.0
15	10.9	9.8	10.4	7.5	6.7	7.1	7.3	6.8	7.1	1.1	0.4	0.6
16	10.8	9.5	10.1	7.1	6.7	6.9	7.3	6.3	6.7	2.3	0.4	1.4
17	10.3	9.6	9.9	7.5	6.8	7.1	6.7	5.9	6.3	3.0	0.9	1.8
18	9.9	9.2	9.6	7.5	6.9	7.2	6.2	5.6	6.0	2.4	1.1	1.6
19	9.6	8.9	9.1	8.3	6.8	7.1	6.1	5.3	5.8	2.4	1.0	1.4
20	9.1	8.1	8.5	7.6	6.8	7.1	5.6	4.8	5.3	2.1	1.2	1.5
21	8.5	7.7	8.0	7.4	6.9	7.1	5.2	4.4	4.8	2.3	0.7	1.3
22	8.4	7.6	7.8	8.1	7.1	7.7	5.4	4.6	4.9	1.7	0.5	1.0
23	8.8	7.9	8.4	8.4	7.8	8.1	5.5	4.9	5.1	1.6	0.6	1.0
24	9.4	8.4	8.9	8.8	8.2	8.4	5.3	4.5	4.9	1.1	0.6	---
25	9.4	8.8	9.1	9.0	8.1	8.5	5.6	4.7	5.0	---	---	---
26	9.2	8.6	8.9	8.4	7.8	8.1	5.5	4.4	4.8	---	---	---
27	9.1	8.0	8.5	8.0	7.2	7.7	5.1	4.1	4.5	---	---	---
28	8.8	8.1	8.4	7.7	6.8	7.1	4.3	3.6	4.0	---	---	---
29	---	---	---	7.4	6.9	7.1	3.8	3.3	3.6	---	---	---
30	---	---	---	7.8	6.9	7.1	3.5	2.9	3.2	---	---	---
31	---	---	---	7.6	6.8	7.1	---	---	---	---	---	---
MONTH	11.1	7.2	8.8	11.0	5.8	8.0	8.0	2.9	5.8	---	---	---

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.2	1.4	---	4.3	0.5	1.8	1.2	0.2	0.4	2.1	1.2	1.7
2	1.6	1.1	1.4	3.8	0.7	1.7	0.8	0.2	0.3	1.5	0.7	1.1
3	1.5	0.9	1.2	5.1	1.2	2.5	0.4	0.2	0.2	1.1	0.4	0.8
4	1.8	0.6	1.0	5.3	1.8	2.8	0.3	0.2	0.2	0.8	0.4	0.5
5	0.7	0.2	0.5	4.6	1.5	2.7	2.4	0.2	0.9	3.9	---	---
6	0.8	0.3	---	3.8	1.2	2.2	1.5	0.3	0.8	---	---	---
7	1.0	0.4	---	2.1	0.4	1.3	1.0	0.3	0.6	1.0	0.4	---
8	1.7	0.4	0.8	1.2	0.3	0.6	0.8	0.2	0.5	0.9	0.3	0.5
9	1.1	0.5	0.8	1.0	0.3	0.5	0.7	0.2	0.4	0.9	0.3	0.5
10	2.0	0.4	1.0	0.9	0.2	0.4	1.2	0.2	0.4	0.8	0.3	0.4
11	1.5	0.5	0.9	0.4	0.2	0.3	1.0	0.3	0.5	2.3	0.3	0.9
12	1.6	0.6	1.2	1.2	0.2	0.6	2.4	0.2	0.9	2.2	0.6	1.4
13	1.4	0.5	0.9	1.7	0.3	0.9	2.4	0.5	1.0	4.1	0.9	2.0
14	2.0	0.8	1.3	2.1	0.4	0.9	3.1	0.4	1.1	4.6	1.3	2.7
15	2.3	1.3	1.9	1.7	0.3	0.7	2.6	0.4	1.0	2.2	0.8	1.5
16	2.4	1.2	1.8	2.2	0.3	0.7	3.0	0.3	1.1	1.2	0.4	0.8
17	1.8	0.5	1.1	2.7	0.3	0.8	3.1	0.3	1.1	0.8	0.3	0.6
18	2.1	0.4	0.9	2.7	0.3	1.0	2.3	0.3	0.8	0.8	0.3	0.5
19	1.9	0.3	0.8	1.8	0.3	0.8	1.3	0.2	0.5	1.1	0.3	0.8
20	1.8	0.3	0.7	2.1	0.3	0.9	1.8	0.2	0.8	1.6	0.6	1.1
21	1.7	0.3	0.7	2.1	0.3	1.0	2.9	0.2	0.8	2.5	0.8	1.6
22	1.8	0.3	0.8	1.8	0.3	0.8	1.5	0.2	0.7	1.4	0.6	1.1
23	2.1	0.2	0.7	1.8	0.3	0.9	2.9	0.4	1.7	1.0	0.5	0.7
24	2.2	0.3	0.7	1.7	0.3	0.8	2.5	0.8	1.7	1.0	0.3	0.7
25	1.8	0.2	0.9	1.3	0.3	0.7	2.6	0.6	1.4	1.0	0.4	0.7
26	2.1	0.3	0.9	2.0	0.3	0.9	2.6	0.5	1.2	0.9	0.4	0.6
27	3.1	0.3	1.2	2.1	0.4	0.9	2.4	1.0	1.8	0.9	0.3	0.6
28	2.5	0.4	1.4	2.0	0.3	1.0	3.0	1.4	2.3	0.7	0.3	0.5
29	2.[illegible]	0.5	1.3	1.7	0.3	0.8	3.1	2.0	2.6	0.7	0.3	0.5
30	2.[illegible]	0.3	1.2	0.9	0.2	0.5	2.5	1.6	2.0	0.9	0.3	0.6
31	---	---	---	1.4	0.3	0.5	3.1	1.4	2.0	---	---	---
MONTH	3.[illegible]	0.2	1.0	5.3	0.2	1.1	3.1	0.2	1.0	4.6	0.3	0.9

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.0	23.0	23.5	16.5	16.0	16.0	10.0	9.5	9.5	4.0	3.5	3.5
2	23.5	23.0	23.0	16.0	16.0	16.0	10.5	9.5	10.0	4.0	3.0	3.5
3	23.5	23.0	23.0	16.0	15.5	---	10.5	9.5	10.0	4.5	3.5	4.0
4	23.0	21.5	22.0	---	---	---	10.5	9.0	10.0	5.0	3.5	4.0
5	22.0	21.5	21.5	---	---	---	9.5	8.5	9.0	5.0	3.5	4.0
6	22.0	21.5	22.0	---	---	---	9.5	7.0	8.0	4.5	3.0	4.0
7	22.0	21.5	22.0	---	---	---	8.0	6.5	7.5	4.0	2.0	3.5
8	23.0	21.5	22.0	---	---	---	8.5	6.5	7.5	3.0	1.5	2.5
9	23.0	22.0	22.0	15.5	14.5	---	8.5	7.0	7.5	3.0	2.0	2.5
10	23.0	22.0	22.5	15.5	14.5	15.0	8.5	8.0	8.0	3.5	2.0	3.0
11	23.0	22.0	22.0	16.0	15.0	15.5	8.5	7.0	8.0	3.5	2.0	3.0
12	23.0	21.5	22.0	16.5	15.5	16.0	8.0	7.0	7.5	4.0	3.0	3.5
13	23.0	22.0	---	16.0	15.0	15.5	8.0	7.0	7.5	3.5	2.0	2.5
14	---	---	---	15.5	15.0	15.0	8.0	7.0	7.5	4.5	2.0	3.0
15	---	---	---	15.5	14.0	14.5	8.0	6.5	7.0	4.5	3.0	3.5
16	---	---	---	14.0	12.0	13.0	8.0	6.5	7.5	3.5	2.0	3.0
17	---	---	---	13.0	11.5	12.5	8.5	6.5	7.5	3.0	1.5	2.5
18	---	---	---	13.0	12.0	12.5	8.0	7.0	7.5	3.5	1.5	2.5
19	---	---	---	13.0	12.0	12.5	8.5	7.0	8.0	3.0	1.5	2.0
20	---	---	---	13.0	12.0	12.5	8.0	7.0	7.5	3.0	1.0	1.5
21	19.5	19.0	---	12.0	11.5	11.5	8.0	6.5	7.0	2.0	1.0	1.5
22	19.5	19.0	19.0	12.0	11.0	11.5	8.0	6.5	7.0	3.5	1.5	2.5
23	20.0	19.0	19.5	12.0	10.0	11.0	7.0	6.0	6.5	3.5	1.5	2.5
24	19.5	19.0	19.0	10.0	9.0	9.5	7.0	5.5	6.0	3.5	1.5	2.5
25	19.5	19.0	19.0	9.5	8.0	9.0	6.5	5.0	6.0	3.5	2.0	3.0
26	19.5	18.5	19.0	9.5	8.5	9.0	6.0	5.0	5.5	---	---	---
27	18.5	17.0	18.0	9.5	9.0	9.0	5.5	4.5	5.0	---	---	---
28	18.0	16.5	17.0	10.0	9.0	9.5	5.0	3.5	4.5	---	---	---
29	17.0	16.0	16.5	10.0	9.0	9.5	5.0	3.5	4.0	---	---	---
30	16.5	16.0	16.5	10.0	9.5	10.0	4.5	3.5	4.0	---	---	---
31	16.5	16.0	16.0	---	---	---	4.5	3.5	4.0	---	---	---
MONTH	---	---	---	16.5	8.0	---	10.5	3.5	7.0	5.0	1.0	3.0

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	8.5	7.0	8.0	9.5	7.0	8.5	14.0	13.0	13.5
2	---	---	---	8.5	7.0	7.5	10.0	8.5	9.5	14.0	13.5	14.0
3	1.0	0.0	---	7.0	6.5	7.0	10.5	9.0	9.5	14.0	13.5	14.0
4	0.5	0.0	0.0	7.0	4.5	5.5	10.5	9.5	10.0	14.0	13.5	14.0
5	2.0	0.5	1.0	8.5	4.5	5.5	10.0	9.0	9.5	15.0	14.0	14.5
6	2.0	1.0	1.5	7.0	6.0	6.5	9.5	8.5	9.0	15.0	14.5	14.5
7	2.0	1.5	1.5	7.0	6.0	6.5	9.0	8.0	8.5	15.5	14.5	15.0
8	3.0	1.0	2.0	6.5	5.0	5.5	10.0	8.5	9.5	15.5	15.0	15.0
9	3.0	2.0	2.0	6.0	4.5	5.5	11.0	9.5	10.0	15.0	15.0	15.0
10	3.0	1.0	1.5	6.5	5.0	5.5	10.0	9.5	9.5	15.5	14.5	15.0
11	3.5	1.5	2.5	6.5	5.5	6.0	10.5	9.5	10.0	16.0	15.0	15.5
12	4.0	3.0	3.5	7.0	5.0	6.0	11.0	10.0	---	16.5	15.5	16.0
13	4.5	3.5	4.0	8.0	6.0	7.0	11.0	10.0	10.5	16.5	16.0	16.5
14	4.0	3.0	3.5	8.0	6.5	7.0	11.0	10.0	10.5	16.5	16.0	16.0
15	4.0	3.0	3.0	9.0	7.0	8.0	11.0	10.0	10.5	17.0	16.0	16.5
16	4.0	2.0	3.0	9.5	8.0	9.0	11.0	10.0	10.5	17.0	16.0	16.5
17	4.0	3.0	3.5	9.0	8.0	8.5	12.0	10.5	11.0	17.0	16.0	16.5
18	5.0	3.0	4.0	9.0	7.0	8.0	12.0	11.0	11.5	18.0	16.5	17.0
19	5.5	4.0	4.5	9.0	8.0	8.5	13.0	11.0	12.0	18.5	17.0	18.0
20	6.0	4.5	5.0	9.0	8.0	8.5	13.5	12.0	12.5	19.0	18.0	18.5
21	6.0	5.0	5.5	9.0	8.0	8.5	14.0	13.0	13.5	19.0	18.5	18.5
22	6.5	5.5	6.0	9.0	8.5	8.5	13.5	13.0	13.5	18.5	18.0	18.5
23	6.5	5.5	6.0	9.0	8.0	8.5	14.0	12.0	13.0	18.5	17.0	18.0
24	6.5	5.5	6.0	8.0	6.5	7.0	14.0	13.0	13.5	19.0	18.0	---
25	7.0	6.0	6.0	8.5	6.0	7.0	13.5	13.0	13.0	---	---	---
26	8.0	6.0	6.5	7.0	6.5	6.5	13.5	13.0	13.0	---	---	---
27	8.5	7.0	8.0	8.0	6.5	7.0	13.5	13.0	13.0	---	---	---
28	8.5	6.5	8.0	8.5	6.5	7.5	14.0	13.0	13.5	---	---	---
29	---	---	---	8.5	7.0	8.0	14.0	13.0	13.5	---	---	---
30	---	---	---	9.0	7.0	8.0	14.0	13.0	13.5	---	---	---
31	---	---	---	9.0	7.0	8.0	---	---	---	---	---	---
MONTH	8.5	0.0	4.0	9.5	4.5	7.0	14.0	7.0	11.0	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	19.5	18.5	---	27.0	26.5	26.5	28.0	27.0	27.5	24.0	23.5	24.0
2	20.0	19.0	19.5	27.0	26.5	26.5	28.5	27.0	27.5	24.0	23.0	24.0
3	20.5	19.5	20.0	27.0	26.0	26.5	28.5	27.0	28.0	24.5	23.5	24.0
4	21.0	20.0	20.5	27.0	26.0	26.5	28.5	28.0	28.0	24.5	24.0	24.0
5	21.5	20.5	20.5	27.0	26.0	26.5	28.0	26.5	27.0	24.5	24.5	---
6	22.0	20.5	---	27.0	26.5	26.5	27.0	26.5	27.0	---	---	---
7	23.0	21.5	---	28.0	26.5	27.0	27.0	26.0	26.5	25.5	25.0	---
8	23.5	21.5	22.5	28.0	26.5	27.5	27.0	26.5	26.5	25.5	25.0	25.5
9	23.0	22.0	23.0	28.5	27.0	27.5	28.0	26.5	27.0	26.0	25.5	25.5
10	23.5	22.0	23.0	28.0	27.0	27.5	28.5	27.0	27.5	26.0	25.5	26.0
11	23.5	23.0	23.0	28.0	26.5	27.0	28.5	27.0	28.0	26.0	25.0	25.5
12	24.0	23.0	23.5	27.0	26.5	27.0	28.0	27.0	27.0	26.0	25.0	25.5
13	24.0	23.5	23.5	28.0	26.5	27.0	28.0	26.5	27.0	25.5	23.0	25.0
14	24.0	23.5	23.5	27.0	26.5	26.5	28.0	26.5	27.0	24.0	23.0	23.5
15	23.5	22.0	23.0	27.0	26.0	26.5	28.0	26.5	27.0	24.5	23.0	24.0
16	23.0	22.0	22.5	27.0	26.5	26.5	27.0	26.5	27.0	25.0	23.5	24.5
17	23.5	22.0	23.0	28.0	26.5	26.5	28.0	26.5	27.0	25.0	24.0	24.5
18	24.0	23.0	23.5	27.0	26.5	26.5	28.0	26.5	27.0	25.0	24.5	24.5
19	24.0	23.5	23.5	27.0	26.5	26.5	28.0	27.0	27.0	25.0	24.5	24.5
20	24.5	23.5	24.0	26.5	26.5	26.5	27.0	27.0	27.0	25.0	24.5	24.5
21	25.5	24.0	24.5	27.0	26.0	26.5	28.0	27.0	27.0	25.0	23.5	24.0
22	25.5	24.5	25.0	27.0	26.0	26.5	28.0	27.0	27.0	24.5	23.5	24.0
23	25.5	24.5	25.0	27.0	26.0	26.5	27.0	26.5	27.0	24.0	23.5	23.5
24	26.0	25.0	25.5	27.0	26.5	26.5	26.5	26.0	26.5	24.0	23.0	23.5
25	26.0	25.5	25.5	27.0	26.5	27.0	26.5	26.0	26.5	23.5	22.0	23.0
26	26.5	25.5	26.0	28.0	26.5	27.0	26.5	26.0	26.5	23.0	22.0	22.5
27	26.5	25.5	26.0	28.0	27.0	27.5	26.5	25.0	25.5	22.0	21.5	22.0
28	27.0	26.0	26.5	28.0	26.5	27.0	25.5	24.5	24.5	23.0	21.5	22.0
29	26.5	26.0	26.5	28.5	27.0	27.5	24.0	23.5	23.5	23.0	22.0	22.5
30	27.0	26.0	26.5	28.0	26.5	27.0	24.5	23.5	24.0	23.0	22.0	22.0
31	---	---	---	27.0	26.5	27.0	24.5	24.0	24.0	---	---	---
MONTH	27.0	18.5	23.5	28.5	26.0	27.0	28.5	23.5	26.5	26.0	21.5	24.0

01477050 DELAWARE RIVER AT CHESTER, PA.--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	6.4	6.4	6.8	6.7	6.7	6.6	6.5	6.6	7.0	6.8	6.9
2	6.5	6.3	6.4	6.9	6.7	6.8	6.7	6.5	6.6	6.9	6.8	6.9
3	6.5	6.3	6.4	6.8	6.7	---	6.8	6.5	6.6	6.9	6.8	6.8
4	6.4	6.3	6.4	---	---	---	6.7	6.5	6.6	7.9	6.8	7.2
5	6.6	6.3	6.4	---	---	---	6.7	6.5	6.6	8.5	6.8	7.5
6	6.4	6.2	6.3	---	---	---	6.9	6.6	6.7	6.9	6.8	6.9
7	6.4	6.2	6.3	---	---	---	7.0	6.8	---	6.9	6.9	6.9
8	6.3	6.2	6.3	---	---	---	---	---	---	7.1	6.8	6.9
9	6.4	6.2	6.3	6.8	6.7	---	---	---	---	6.9	6.8	6.9
10	6.4	6.2	6.3	7.1	6.8	7.0	---	---	---	6.9	6.8	6.9
11	6.3	6.2	6.3	7.4	7.0	7.1	---	---	---	7.0	6.8	6.9
12	6.4	6.2	6.3	7.1	6.9	7.0	---	---	---	7.0	6.8	6.9
13	6.4	6.2	---	7.0	6.7	6.9	---	---	---	6.9	6.8	6.8
14	---	---	---	6.9	6.7	6.8	6.7	6.6	6.7	7.0	6.7	6.9
15	---	---	---	7.0	6.8	6.9	6.7	6.6	6.7	7.0	6.7	6.9
16	---	---	---	7.0	6.8	6.9	6.9	6.6	6.8	6.9	6.8	6.8
17	---	---	---	7.0	6.9	7.0	7.0	6.7	6.8	6.8	6.8	6.8
18	---	---	---	7.0	6.8	6.9	6.8	6.7	6.8	6.9	6.8	6.8
19	---	---	---	6.9	6.8	6.9	6.8	6.7	6.7	6.9	6.8	6.9
20	---	---	---	6.9	6.8	6.8	6.8	6.7	6.7	6.9	6.8	6.9
21	6.6	6.4	---	6.8	6.7	6.8	7.0	6.7	6.8	6.9	6.8	6.9
22	6.6	6.4	6.5	6.8	6.7	6.8	7.1	6.8	6.9	7.0	6.8	6.9
23	6.6	6.5	6.5	6.8	6.7	6.7	7.0	6.8	6.9	7.8	6.8	7.1
24	6.6	6.5	6.5	6.8	6.7	6.8	7.0	6.8	6.9	7.1	6.8	6.9
25	6.5	6.5	6.5	6.8	6.7	6.8	6.9	6.8	6.9	7.3	6.5	6.9
26	6.8	6.5	6.7	6.8	6.7	6.7	6.9	6.8	6.8	7.3	6.7	---
27	6.9	6.8	6.8	6.7	6.6	6.7	7.0	6.8	6.9	---	---	---
28	6.9	6.8	6.8	6.7	6.6	6.6	7.0	6.8	6.9	---	---	---
29	6.8	6.8	6.8	6.6	6.6	6.6	7.1	6.8	6.9	---	---	---
30	6.8	6.8	6.8	6.7	6.5	6.6	6.9	6.8	6.9	---	---	---
31	6.8	6.7	6.8	---	---	---	6.9	6.8	6.8	---	---	---
MONTH	---	---	---	7.4	6.5	---	7.1	6.5	---	8.5	6.5	6.9

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	7.1	6.7	6.8	6.8	6.6	6.7	6.6	6.5	6.5
2	---	---	---	6.9	6.8	6.8	8.1	6.7	7.3	6.6	6.5	6.5
3	---	---	---	7.0	6.8	---	7.2	6.6	6.7	6.6	6.5	6.5
4	---	---	---	---	---	---	6.7	6.6	6.6	6.6	6.5	6.5
5	---	---	---	---	---	---	6.8	6.6	6.6	6.6	6.5	6.6
6	---	---	---	---	---	---	7.5	6.7	7.1	6.9	6.6	6.7
7	---	---	---	6.9	6.8	---	7.5	6.7	7.0	6.6	6.5	6.5
8	---	---	---	7.0	6.8	6.9	6.9	6.8	6.8	7.2	6.5	6.8
9	---	---	---	7.0	6.8	6.9	6.9	6.8	6.9	6.8	6.5	6.6
10	---	---	---	6.9	6.7	6.8	7.0	6.8	6.8	6.5	6.5	6.5
11	---	---	---	---	---	---	6.8	6.7	6.8	6.5	6.5	6.5
12	---	---	---	---	---	---	6.8	6.7	---	6.7	6.5	6.6
13	---	---	---	---	---	---	6.8	6.6	6.7	7.3	6.6	7.0
14	---	---	---	---	---	---	7.5	6.6	6.7	6.8	6.5	6.6
15	---	---	---	---	---	---	6.7	6.6	6.6	6.6	6.5	6.5
16	---	---	---	---	---	---	6.7	6.5	6.6	7.6	6.6	7.2
17	---	---	---	---	---	---	6.7	6.5	6.6	7.4	6.6	6.8
18	---	---	---	---	---	---	6.7	6.6	6.7	6.7	6.6	6.6
19	---	---	---	---	---	---	6.7	6.6	6.6	6.7	6.6	6.6
20	---	---	---	6.9	6.6	6.8	6.7	6.6	6.6	6.7	6.6	6.6
21	---	---	---	6.9	6.8	6.8	6.6	6.5	6.6	6.8	6.6	6.7
22	---	---	---	6.9	6.7	6.8	6.6	6.5	6.5	6.6	6.5	6.6
23	---	---	---	6.9	6.7	6.8	6.6	6.5	6.6	6.6	6.5	6.5
24	---	---	---	6.8	6.7	6.8	6.6	6.5	6.6	6.6	6.5	---
25	---	---	---	6.8	6.6	6.7	6.6	6.5	6.5	---	---	---
26	---	---	---	6.9	6.6	6.6	6.7	6.5	6.6	---	---	---
27	6.8	6.8	---	6.6	6.6	6.6	6.7	6.6	6.6	---	---	---
28	6.8	6.7	6.8	6.6	6.5	6.6	7.2	6.5	6.7	---	---	---
29	---	---	---	6.8	6.5	6.6	7.0	6.5	6.7	---	---	---
30	---	---	---	6.7	6.6	6.7	6.6	6.5	6.6	---	---	---
31	---	---	---	6.8	6.6	6.7	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	8.1	6.5	6.7	---	---	---

01477050 DELAWARE RIVEa AT CHESTER, PA.--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.7	6.6	---	7.2	6.8	7.0	7.1	6.9	7.0	6.8	6.5	6.6
2	7.2	6.6	6.7	7.0	6.6	6.8	7.0	6.8	6.9	6.7	6.4	6.6
3	7.7	7.0	7.4	6.8	6.6	6.7	7.0	6.8	6.9	6.9	6.6	6.7
4	7.8	6.5	6.9	6.8	6.6	6.7	7.0	6.9	6.9	7.7	6.6	6.9
5	6.6	6.5	6.6	6.6	6.6	6.6	7.0	6.8	6.9	6.9	6.9	---
6	6.6	6.5	---	6.8	6.6	6.7	6.8	6.8	6.8	---	---	---
7	7.2	6.6	---	6.7	6.6	6.7	6.8	6.8	6.8	7.3	6.7	---
8	7.6	6.5	6.8	6.7	6.6	6.6	7.8	6.8	6.9	7.8	6.7	7.2
9	6.7	6.5	6.6	6.7	6.5	6.7	6.9	6.8	6.8	7.9	6.6	7.2
10	6.7	6.5	6.6	6.7	6.6	6.7	7.0	6.9	6.9	7.4	7.0	7.2
11	6.6	6.6	6.6	6.7	6.6	6.7	7.1	6.9	7.0	7.9	7.4	7.7
12	6.8	6.6	6.6	6.8	6.6	6.7	7.1	6.7	6.9	8.4	7.7	8.0
13	6.7	6.6	6.7	6.8	6.6	6.7	6.8	6.7	6.8	8.7	7.9	8.3
14	7.0	6.6	6.7	6.8	6.6	6.7	6.8	6.7	6.8	8.7	7.6	8.3
15	6.7	6.6	6.6	6.8	6.6	6.7	6.8	6.7	6.7	8.3	6.8	7.7
16	6.7	6.6	6.6	6.7	6.5	6.6	6.8	6.7	6.7	8.3	6.7	7.4
17	6.7	6.5	6.6	6.7	6.6	6.6	6.8	6.6	6.7	8.0	6.9	7.6
18	6.7	6.5	6.6	6.7	6.5	6.6	6.7	6.6	6.7	7.9	7.3	7.6
19	6.7	6.5	6.6	6.8	6.6	6.7	6.8	6.6	6.7	7.6	7.4	7.5
20	6.7	6.5	6.6	6.8	6.6	6.7	6.7	6.7	6.7	7.7	6.9	7.4
21	7.3	6.6	6.8	6.8	6.6	6.7	6.7	6.6	6.7	7.7	6.8	7.0
22	6.7	6.5	6.6	6.7	6.6	6.7	6.7	6.6	6.7	6.8	6.7	6.8
23	6.8	6.5	6.6	6.7	6.6	6.7	6.7	6.7	6.7	7.0	6.8	6.9
24	6.7	6.5	6.6	6.8	6.6	6.7	6.7	6.6	6.6	7.0	6.8	6.8
25	6.8	6.5	6.7	6.7	6.6	6.7	6.6	6.6	6.6	6.8	6.7	6.8
26	7.1	6.6	6.8	6.8	6.6	6.7	6.7	6.6	6.6	6.8	6.7	6.8
27	6.8	6.5	6.6	6.7	6.6	6.7	7.6	6.8	7.0	7.1	6.7	7.0
28	6.8	6.6	6.7	6.8	6.6	6.7	7.6	6.6	7.0	7.3	6.9	7.1
29	6.8	6.7	6.7	6.8	6.6	6.7	6.8	6.6	6.7	7.3	6.7	6.9
30	7.1	6.8	6.9	6.9	6.7	6.8	6.9	6.6	6.7	7.0	6.7	6.8
31	---	---	---	7.0	6.8	6.9	6.7	6.6	6.6	---	---	---
MONTH	7.8	6.5	6.7	7.2	6.5	6.7	7.8	6.6	6.8	8.7	6.4	7.2

01477120 RACCOON CREEK NEAR SWEDESBORO, N. J.

LOCATION.--Lat 39°44'25", long 75°15'34", Gloucester County, water-temperature recorder at gaging station at county bridge No. 5-F-3, 2.8 miles east of Swedesboro.

DRAINAGE AREA.--29.9 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1966-71 (partial-record station).
Water temperatures: May 1966 to September 1971.
Sediment records: June 1966 to September 1969, October 1970 to September 1971.

EXTREMES.--1970-71:
Water temperatures: Maximum, 26.0 Aug. 10; minimum, freezing point Feb. 8-9.
Period of record:
Water temperatures: Maximum, 26.0 Aug. 10, 1971; minimum, freezing point on many days during winter months.
Sediment concentrations (1966-69): Maximum daily, 298 mg/l July 29, 1969; minimum daily, 1 mg/l on many days during winter months 1969.
Sediment discharge (1966-69): Maximum daily, 486 tons July 29, 1969; minimum daily, less than 0.03 ton Dec. 19-20, 1968.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DISCHARGE (CFS)	SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS POTASSIUM (NA+K) (MG/L)	POTASSIUM (K) (MG/L)
DEC. 09...	E24	--	--	--	21	5.0	--	3.4	--
JUNE 10...	E29	9.3	290	27	18	3.7	5.2	--	4.1
JULY 14...	E11	--	--	--	21	3.7	--	5.8	--
SEP. 25...	E38	10	580	61	19	3.7	3.4	--	3.6

DATE	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (MG/L)
DEC. 09...	29	0	24	32	13	--	5.6	.05
JUNE 10...	29	0	24	25	14	.0	10	.13
JULY 14...	46	0	38	21	12	--	4.5	.10
SEP. 25...	30	0	25	30	10	.1	5.6	.16

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 09...	--	--	73	49	187	7.6	5	1.2	--
JUNE 10...	119	104	60	36	171	7.6	3	1.3	7.0
JULY 14...	--	--	68	30	182	7.0	5	1.9	--
SEP. 25...	123	100	63	38	171	6.8	30	1.5	5.0

E Provisional record, subject to revision. See "Part 1. Surface Water Records" for final discharge figure.

01477120 RACCOON CREEK NEAR SWEDESBORO, N. J.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED ALUM-INUM (AL) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)
SEP.											
25...	46	60	<0.4	<3	26	<10	<3	2	2	<1	<3

DATE	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
SEP.											
25...	<3	<10	<1	6	<0.2	80	<3	2	<1.0	<100	<5

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
DEC.						
09...	1530	4.9	195	7.4	11.8	6600
JUNE						
10...	1215	23.0	190	7.4	8.8	31000
JULY						
14...	0800	21.9	180	6.8	--	2000
SEP.						
25...	0900	14.7	175	7.7	8.6	3500

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
OCT 22, 1970	1230	105	139	39
OCT 22......	1430	136	179	66
OCT 22......	1550	155	218	91
OCT 22......	1700	171	162	75
DEC 15......	1405	21	299	17
DEC 17......	1135	270	608	443
DEC 17......	1540	179	279	135
FEB 8, 1971	1055	512	228	315
FEB 8......	1305	424	201	230
FEB 8......	1440	329	318	282
FEB 8......	1515	301	325	264
FEB 23......	0840	217	293	172
FEB 23......	1040	197	326	173
FEB 23......	1325	166	306	137
JUL 30......	0845	16	42	1.8
JUL 30......	1200	16	65	2.8
JUL 30......	1400	47	400	51
JUL 30......	1530	38	220	23
JUL 30......	1555	35	189	18
AUG 27......	1130	258	327	228
AUG 27......	1300	348	804	755
AUG 27......	1505	435	326	383

01477120 RACCOON CREEK NEAR SWEDESBORO, N. J.--Continued

TEMPERATURES (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	13.0	---	---	---	---	3.0	3.0	1.0	1.0	6.5	6.5
2	14.5	12.0	---	---	---	---	3.0	3.0	1.0	1.0	6.5	6.0
3	16.5	13.5	---	---	---	---	3.0	3.0	1.0	1.0	6.0	5.5
4	16.0	14.0	---	---	---	---	3.0	3.0	1.0	1.0	5.5	4.5
5	13.5	12.0	---	---	---	---	3.5	3.0	1.0	1.0	4.5	3.0
6	15.0	13.5	---	---	---	---	3.5	3.0	1.5	1.0	4.5	3.5
7	15.5	13.5	---	---	---	---	3.5	3.0	2.0	1.5	5.5	5.0
8	16.0	14.5	---	---	---	---	3.0	1.5	1.0	0	5.5	5.0
9	17.0	15.0	---	---	---	---	2.0	1.5	1.5	0	4.5	4.0
10	18.0	16.0	---	---	---	---	3.0	2.0	1.5	1.0	4.0	4.0
11	18.0	17.0	---	---	---	---	3.5	3.0	2.0	1.0	5.0	4.5
12	18.0	16.0	---	---	---	---	3.5	3.0	3.5	2.0	5.5	5.0
13	18.0	16.5	---	---	---	---	3.5	3.0	3.5	3.0	5.5	5.0
14	18.0	17.0	---	---	---	---	3.5	2.0	3.5	2.0	6.5	6.0
15	18.0	17.0	---	---	---	---	3.5	3.0	2.0	2.0	8.0	6.5
16	17.0	13.0	---	---	---	---	3.0	1.5	3.5	2.0	9.0	8.0
17	13.0	10.0	---	---	---	---	2.0	1.5	3.5	3.0	8.5	8.0
18	11.0	10.0	---	---	6.5	6.0	1.5	1.5	4.5	3.5	8.5	6.5
19	11.0	10.0	---	---	6.0	6.0	1.5	1.5	5.0	4.5	6.5	6.5
20	11.5	10.0	---	---	6.0	6.0	1.5	1.0	6.5	4.5	6.5	6.5
21	12.0	11.0	---	---	6.0	5.5	2.0	1.0	6.0	5.5	6.5	6.0
22	14.0	12.0	---	---	5.5	5.5	2.0	1.5	5.5	5.0	6.0	6.0
23	14.5	14.0	---	---	5.5	5.5	3.5	2.0	5.0	5.0	6.0	6.0
24	14.5	14.5	---	---	5.5	5.0	3.0	2.0	5.0	5.0	6.0	5.5
25	15.0	14.5	---	---	5.0	4.5	3.5	2.0	5.0	4.5	6.0	5.5
26	15.0	14.0	---	---	4.5	4.0	3.5	3.0	6.0	5.0	5.5	5.5
27	---	---	---	---	4.0	3.5	3.5	1.0	7.0	5.5	6.0	5.0
28	---	---	---	---	3.5	3.5	1.0	1.0	6.5	6.5	6.0	5.5
29	---	---	---	---	3.5	3.5	1.0	1.0	---	---	6.0	6.0
30	---	---	---	---	3.5	3.0	1.5	1.0	---	---	6.0	6.0
31	---	---	---	---	3.5	3.0	1.5	1.0	---	---	6.5	5.5
MONTH	18.0	10.0	---	---	---	---	3.5	1.0	7.0	0	9.0	3.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.0	12.0	10.0	18.0	14.5	25.5	21.5	25.0	23.0	20.5	19.5
2	9.0	6.5	12.0	11.0	18.0	16.0	23.5	21.5	24.5	22.0	20.0	19.0
3	9.0	9.0	12.0	11.0	19.0	16.5	23.0	19.0	25.0	23.0	21.0	19.0
4	9.0	8.5	19.5	14.0	20.5	18.0	23.0	18.5	24.0	23.0	22.0	19.5
5	9.0	9.0	15.0	11.5	21.0	18.5	22.0	16.5	23.0	21.0	22.0	20.0
6	9.5	8.0	14.5	13.5	21.0	19.0	23.5	18.5	23.0	21.0	23.5	21.0
7	8.5	5.0	15.5	13.0	23.0	19.0	23.5	20.0	23.5	20.5	22.0	21.0
8	6.5	6.0	14.0	13.5	24.0	20.5	25.0	19.5	25.0	21.0	23.0	21.0
9	8.0	6.5	13.5	13.5	23.0	21.0	25.0	20.0	25.5	22.0	23.5	21.5
10	9.0	8.0	15.5	13.0	21.5	18.5	24.0	20.5	26.0	23.0	23.0	22.0
11	9.0	8.0	16.5	15.5	21.0	18.5	21.0	19.0	25.0	23.0	22.0	22.0
12	10.0	8.5	15.5	15.0	23.0	19.0	21.0	17.0	23.5	21.5	22.0	22.0
13	10.0	9.5	16.5	15.5	21.5	20.0	22.0	18.0	23.0	20.0	22.0	21.5
14	11.0	10.0	16.0	14.0	20.5	20.0	23.0	19.5	23.0	20.0	21.0	20.5
15	11.0	8.0	15.5	14.5	19.0	17.0	23.0	18.5	23.5	20.5	21.0	20.0
16	10.0	9.0	15.0	13.5	19.5	16.5	21.0	18.5	23.0	20.5	21.5	20.0
17	11.5	9.5	14.0	13.0	20.5	16.5	23.5	19.0	24.0	20.5	21.0	20.5
18	11.5	10.0	15.5	14.0	21.0	16.5	23.0	19.0	23.0	20.0	21.0	20.5
19	13.5	11.5	17.0	15.0	21.5	18.0	22.0	19.0	23.0	20.5	20.5	20.0
20	13.5	12.0	18.0	15.5	23.5	19.5	22.0	20.5	23.0	20.5	21.0	20.0
21	14.5	12.0	17.0	12.0	22.0	21.0	21.5	19.5	24.0	21.0	20.5	20.0
22	13.5	11.5	15.5	14.0	23.0	20.5	22.0	19.0	23.5	21.0	19.5	18.0
23	12.0	10.0	16.0	13.5	23.5	20.0	22.0	19.5	23.0	20.5	18.5	18.5
24	11.5	10.0	16.5	14.0	23.5	20.5	23.0	20.0	20.0	18.0	18.0	17.0
25	12.0	9.5	18.5	16.0	24.5	21.0	23.0	20.5	20.5	16.5	17.0	15.5
26	10.5	10.0	18.5	16.5	24.0	21.5	23.5	21.0	20.5	18.0	16.0	15.5
27	11.5	9.0	17.0	16.0	25.0	21.0	24.0	21.5	20.0	19.5	16.5	16.0
28	11.5	11.0	16.0	14.5	24.5	21.5	25.0	20.5	20.0	19.5	18.0	16.5
29	11.0	11.0	16.5	14.5	23.0	21.0	25.0	21.5	20.5	19.5	19.0	17.0
30	11.0	10.5	15.5	14.5	23.5	21.0	23.0	22.0	21.5	19.5	19.0	18.0
31	---	---	16.0	14.5	---	---	24.5	23.0	21.0	20.5	---	---
MONTH	14.5	5.0	19.5	10.0	25.0	14.5	25.5	16.5	26.0	16.5	23.5	15.5

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.

LOCATION.--Lat 39°41'18", long 75°31'06", New Castle County, at center of the navigational channel at bridge between Pigeon Point, Del. and Deepwater Point, N. J. Water-quality recorder (39°41'21", 75°31'19") at tidal-gaging station located on channel side of west tower of south bridge.

DRAINAGE AREA.--11,030 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1955 to September 1971.
Water temperatures: October 1956 to September 1971.

EXTREMES.--1970-71:
Specific conductance: Maximum, 8,120 micromhos Oct. 14; minimum, 100 micromhos Sept. 13-14.
Dissolved oxygen: Maximum, 12.3 mg/l Jan. 28; minimum, 0.1 mg/l on several days during June and September.
Water temperatures: Maximum, 28.0°C Aug. 10; minimum, freezing point on several days during winter months.
pH: Maximum, 9.3 Nov. 10-11, 13; minimum, 5.4 Dec. 12.
Period of record:
Specific conductance: Maximum, 14,600 micromhos Oct. 6, 1957; minimum, 100 micromhos on many days.
Dissolved oxygen (1962-71): Maximum, 13.5 mg/l Dec. 29, 1969; minimum, 0.0 mg/l on many days during summer months.
Water temperatures (1956-71): Maximum, 31.0°C Aug. 9, 1968; minimum, freezing point on many days during winter months.
pH (1968-71): Maximum, 9.3 Nov. 10-11, 13, 1970; minimum, 4.2 Nov. 6, 1969.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6920	3160	5020	3900	460	1750	1360	200	540	2300	400	1200
2	7420	3480	5330	4120	500	2020	1280	200	618	2480	440	1410
3	7840	3480	5800	4780	780	2500	1220	220	553	2400	400	1350
4	6460	3300	4890	5620	720	2400	1040	200	508	2920	440	1410
5	6820	3280	4580	3420	340	1740	980	200	446	2840	420	1240
6	7200	3400	5070	3700	280	1540	760	200	381	1300	240	506
7	6900	3340	4950	3100	420	1530	660	200	343	680	260	351
8	6720	3300	4830	3340	400	1600	1000	260	576	560	260	323
9	6360	3260	4810	3420	480	1780	1100	280	568	1340	260	513
10	6880	2140	4810	3680	500	1950	1440	280	624	1380	280	638
11	7060	3160	4890	4040	540	2010	1540	280	738	1300	280	592
12	7380	3220	5090	4260	540	2000	2040	300	1020	1160	280	595
13	8000	3100	5230	3020	200	1310	2400	380	1200	1180	280	587
14	8120	3280	5450	1780	160	620	1820	260	914	1440	300	719
15	7580	3280	5470	880	120	326	2000	360	967	1180	280	654
16	7140	2960	4940	180	140	163	2180	380	1130	620	260	413
17	6040	2480	4530	220	140	162	1960	280	1130	1420	280	713
18	6640	2600	4720	200	140	168	920	260	511	1360	280	675
19	6820	2760	4560	200	140	158	1100	260	562	1340	340	705
20	6840	3180	4930	560	120	238	560	260	395	1500	300	705
21	7100	3200	4970	260	200	218	760	260	448	2340	300	1060
22	6280	3200	4710	360	200	238	1000	280	568	3260	300	1280
23	4920	1820	3390	260	200	210	1220	280	647	4080	320	1610
24	3820	840	2240	220	200	207	1760	280	624	4180	380	1690
25	2600	620	1580	400	180	246	1320	280	551	6360	660	2480
26	2680	560	1450	740	200	308	1820	280	748	6380	300	2040
27	2620	520	1480	1280	200	374	2260	280	780	2120	340	843
28	2620	400	1360	1420	200	433	1600	260	627	5700	560	2020
29	3020	380	1310	1800	200	517	1820	280	680	3340	540	1570
30	3780	440	1710	1340	200	539	1880	300	827	3620	680	1940
31	3660	380	1690	---	---	---	2300	320	959	3280	720	1850
MONTH	8120	380	4060	5620	120	976	2400	200	683	6380	240	1090

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C) WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3120	520	1600	260	260	---	820	260	421	1100	280	548
2	2440	600	1450	280	260	263	620	260	353	1260	280	578
3	---	---	---	280	260	262	400	260	309	1000	280	515
4	---	---	---	280	240	262	400	260	307	780	280	469
5	---	---	---	260	220	251	400	260	306	920	280	518
6	---	---	---	260	240	252	400	280	297	920	300	492
7	---	---	---	260	240	259	360	280	301	1080	300	531
8	3700	620	---	260	240	258	280	280	280	1400	300	614
9	3420	300	1070	260	240	256	320	280	287	1340	300	636
10	860	320	426	320	240	260	320	280	286	1560	300	605
11	1120	320	534	340	260	278	320	260	290	1540	320	698
12	1400	320	693	320	260	272	400	260	307	1840	320	766
13	1580	360	856	380	260	295	460	240	313	2040	320	835
14	1260	220	420	420	260	308	480	200	283	1160	320	594
15	240	200	218	440	260	310	320	200	251	860	320	518
16	260	200	225	320	260	288	380	200	254	680	320	419
17	280	200	231	300	260	275	420	200	263	480	320	364
18	280	180	206	280	260	278	380	220	255	440	320	359
19	240	180	196	320	280	287	360	200	261	540	320	388
20	260	180	202	300	280	281	500	200	306	660	320	409
21	220	180	193	280	260	279	840	200	382	640	320	411
22	440	180	---	300	280	284	560	220	314	740	300	399
23	---	---	---	400	280	295	820	200	356	720	300	418
24	---	---	---	300	260	278	880	220	408	740	320	459
25	---	---	---	320	260	274	940	220	416	1200	320	535
26	---	---	---	520	260	326	1120	240	488	900	300	473
27	---	---	---	580	260	362	1120	260	490	800	320	483
28	---	---	---	840	260	436	1400	280	625	860	320	502
29	---	---	---	1360	260	497	1280	260	609	780	320	514
30	---	---	---	620	260	348	1480	280	605	860	340	540
31	---	---	---	520	260	323	---	---	---	800	340	538
MONTH	---	---	---	1360	220	297	1480	200	354	2040	280	520

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	740	260	451	4960	600	2490	2780	940	1850	---	---	---
2	760	260	458	2780	640	1740	2520	760	1620	---	---	---
3	520	260	366	3180	740	1820	2240	540	1390	---	---	---
4	640	260	368	3820	760	1920	1940	560	---	---	---	---
5	980	280	436	4180	740	1950	---	---	---	---	---	---
6	1220	280	509	3840	740	2190	---	---	---	---	---	---
7	1440	280	558	3900	760	2120	---	---	---	2500	160	---
8	1400	300	624	3860	780	2210	---	---	---	2320	140	1040
9	1880	300	618	4660	960	2450	---	---	---	3060	140	1180
10	1900	340	857	4560	960	2530	---	---	---	2680	160	1240
11	1860	320	898	4900	1080	2890	---	---	---	2360	200	1280
12	3380	380	1130	4880	1440	3140	---	---	---	1840	120	812
13	2580	400	1210	5180	1520	3430	---	---	---	660	100	305
14	2660	500	1400	5120	1440	3350	---	---	---	160	100	137
15	2760	560	1640	5440	1680	3310	---	---	---	140	120	139
16	2500	440	1460	6000	1820	3300	---	---	---	140	120	138
17	2560	420	1400	5240	1840	3460	---	---	---	180	120	142
18	2700	500	1370	5280	1780	3360	---	---	---	160	120	142
19	2860	480	1370	5480	1820	3520	1820	1020	---	160	140	145
20	3160	540	1470	5180	1820	3430	2900	600	1600	260	140	189
21	5000	580	2080	5200	1740	3290	3320	660	1860	240	200	213
22	5520	640	2560	5160	1820	3340	3200	680	1930	240	180	207
23	6240	840	3020	5240	1900	3370	3360	700	2120	280	200	225
24	6640	920	3250	4900	1860	3300	3540	860	2170	320	200	221
25	6800	920	3310	4840	1900	3400	3440	880	2180	260	200	222
26	6720	1000	3450	5240	2080	3600	3360	920	2220	380	200	242
27	5920	1160	3610	5040	1940	3290	3200	1020	---	440	220	287
28	6240	1160	3720	4420	2040	3290	---	---	---	680	260	351
29	7040	1440	4040	4380	2000	3320	---	---	---	1080	260	398
30	5840	1200	3700	3860	1720	2750	---	---	---	1160	280	480
31	---	---	---	3040	1240	2230	---	---	---	---	---	---
MONTH	7040	260	1710	6000	600	2900	---	---	---	3060	100	---

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.9	1.7	3.4	4.8	3.2	3.7	7.2	5.8	6.4	11.3	9.3	10.4
2	5.2	1.9	3.7	5.4	3.4	4.0	6.9	5.2	6.2	11.6	9.1	10.6
3	5.9	2.6	4.4	5.3	2.9	3.9	6.3	4.9	5.7	11.0	8.8	10.0
4	5.5	2.0	3.9	5.6	2.7	3.6	6.9	5.1	6.0	10.5	8.5	9.6
5	5.6	1.9	3.4	5.6	2.7	3.7	9.5	5.8	7.0	10.2	8.2	9.1
6	6.1	1.5	3.6	5.6	2.7	3.6	8.5	6.4	7.6	9.3	7.3	8.2
7	5.7	1.0	3.1	4.7	3.2	3.8	10.7	7.3	8.8	8.9	7.3	8.0
8	5.4	0.7	2.7	4.5	2.8	3.5	11.6	8.4	9.9	9.0	7.6	8.1
9	5.1	0.6	2.5	4.3	2.8	3.4	10.8	8.1	9.5	10.0	7.7	8.4
10	5.8	0.6	2.7	4.3	2.4	3.2	10.4	7.7	9.0	9.6	7.6	8.4
11	5.3	0.7	2.7	4.0	2.0	2.7	10.2	7.6	8.9	9.1	7.5	8.1
12	5.5	0.6	2.6	4.1	1.7	2.5	10.6	7.9	9.4	8.8	7.5	8.0
13	5.2	0.5	2.6	3.5	1.6	2.3	10.6	8.2	9.5	9.0	7.7	8.2
14	5.0	0.5	2.8	2.1	1.4	1.8	10.0	7.1	8.8	9.1	7.6	8.3
15	5.4	0.7	2.9	2.9	1.5	2.2	9.8	7.6	8.7	8.5	7.5	8.0
16	5.1	0.6	3.1	4.0	2.8	3.4	10.3	7.5	9.0	8.9	7.5	8.2
17	6.4	1.5	4.1	4.5	3.4	3.8	10.4	7.5	9.3	9.8	8.1	8.9
18	7.2	3.1	5.2	4.6	3.5	3.8	9.4	6.9	8.3	9.6	7.7	8.7
19	7.4	3.0	5.2	4.8	3.3	3.8	9.0	6.7	8.0	9.4	7.9	8.6
20	7.6	3.3	5.2	5.0	3.4	4.1	8.3	6.6	7.6	9.5	7.8	8.7
21	7.4	3.7	5.5	5.7	4.8	5.3	8.4	6.2	7.5	10.1	7.9	9.2
22	6.7	3.7	5.2	6.3	5.4	5.7	8.9	6.7	7.8	10.2	8.1	9.0
23	5.4	2.1	3.7	6.9	5.8	6.3	8.5	6.3	7.6	10.4	8.0	9.1
24	3.3	0.8	2.0	7.8	6.3	7.1	9.0	6.6	7.7	10.4	8.1	9.0
25	1.8	0.4	1.1	8.3	6.5	7.5	8.8	6.4	7.6	10.7	7.7	9.0
26	2.9	0.8	1.6	8.5	6.6	7.6	9.3	6.6	8.0	10.4	7.6	8.9
27	4.1	2.1	2.9	8.4	6.3	7.2	10.2	7.0	8.4	10.6	8.4	9.5
28	4.3	3.1	3.6	7.9	6.0	6.8	9.8	7.0	8.2	12.3	9.5	10.4
29	4.2	3.0	3.5	7.7	6.1	6.6	10.3	7.4	8.5	10.7	8.9	9.8
30	4.8	3.1	3.7	7.3	5.9	6.5	10.4	7.6	8.7	9.7	7.5	8.6
31	4.6	3.2	3.6	---	---	---	10.4	7.6	8.9	9.0	7.1	8.2
MONTH	7.6	0.4	3.4	8.5	1.4	4.4	11.6	4.9	8.1	12.3	7.1	8.9

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.8	7.4	8.2	9.0	8.5	---	9.1	7.6	8.4	6.2	3.7	5.1
2	8.5	7.4	8.0	9.1	8.5	8.7	8.8	7.4	8.0	5.8	3.5	4.7
3	---	---	---	9.3	8.7	9.0	8.2	7.3	7.7	5.3	3.2	4.4
4	---	---	---	10.7	9.1	9.8	8.1	6.8	7.4	6.1	3.3	4.8
5	---	---	---	10.9	10.4	10.7	8.1	6.6	7.4	6.6	3.8	5.2
6	---	---	---	10.8	10.1	10.5	9.6	7.2	8.4	5.9	3.4	4.8
7	---	---	---	10.6	9.8	10.2	9.5	7.8	9.0	5.6	3.2	4.4
8	7.4	6.2	---	10.5	10.0	10.2	9.2	7.7	8.2	5.3	2.8	4.2
9	7.6	5.4	6.6	10.7	10.4	10.6	8.8	7.4	8.0	4.8	2.4	3.8
10	6.6	5.2	6.0	10.9	10.2	10.5	8.5	7.4	7.9	4.9	1.9	3.4
11	7.0	5.4	6.1	10.8	9.9	10.3	8.6	7.3	7.8	4.7	1.9	3.1
12	6.7	5.3	6.0	10.4	9.7	10.0	8.3	6.9	7.4	4.1	1.4	2.7
13	6.9	5.2	6.0	10.1	9.3	9.7	7.8	6.1	6.7	4.3	1.5	2.7
14	7.0	5.5	6.2	9.8	9.1	9.4	7.4	6.4	6.9	3.8	1.3	2.5
15	6.7	6.2	6.4	9.6	8.8	9.2	7.8	6.8	7.3	3.4	1.2	2.4
16	6.5	6.0	6.2	9.1	8.3	8.8	7.9	6.7	7.1	3.5	1.3	2.5
17	6.3	5.8	6.0	9.0	8.1	8.6	8.0	6.6	7.1	3.6	1.0	2.5
18	6.6	5.9	6.2	9.0	8.0	8.4	7.4	6.3	6.9	2.9	0.7	2.0
19	6.7	5.7	6.1	9.4	8.0	8.6	7.4	6.5	7.0	2.3	0.5	1.5
20	6.6	5.6	6.0	8.9	8.2	8.5	7.2	6.0	6.7	3.1	0.7	1.6
21	6.4	5.6	6.0	9.4	8.7	9.0	6.8	5.6	6.3	2.3	0.7	1.4
22	6.2	5.6	---	9.8	8.5	9.2	7.1	5.4	6.2	2.5	0.6	1.3
23	---	---	---	9.4	8.4	8.9	7.6	5.5	6.6	2.7	0.8	1.6
24	---	---	---	9.3	8.6	8.9	7.8	5.5	6.6	2.7	1.0	1.7
25	---	---	---	9.5	8.9	9.2	7.6	5.7	6.7	3.1	1.3	2.4
26	---	---	---	9.8	8.8	9.3	7.7	5.5	6.5	3.7	2.2	3.1
27	---	---	---	10.0	9.0	9.4	7.4	5.2	6.2	3.8	2.2	2.9
28	---	---	---	10.3	8.8	9.3	7.2	5.0	6.1	3.3	2.0	2.6
29	---	---	---	9.8	8.1	8.9	6.8	4.6	5.8	3.4	2.2	2.7
30	---	---	---	8.9	7.9	8.4	7.0	4.2	5.6	4.9	3.6	4.1
31	---	---	---	9.0	7.6	8.4	---	---	---	4.9	4.0	4.4
MONTH	---	---	---	10.9	7.6	9.4	9.6	4.2	7.1	6.6	0.5	3.1

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	4.4	3.5	4.0	2.9	1.3	2.0	4.6	1.7	3.1	1.1	0.5	0.7
2	4.1	3.2	3.7	3.0	1.6	2.2	4.4	1.5	2.7	1.3	0.4	0.5
3	4.1	2.7	3.5	4.6	1.8	3.0	4.5	1.1	2.5	1.1	0.3	0.5
4	3.9	2.2	3.2	4.9	2.4	3.2	3.5	0.4	1.9	1.0	0.3	0.5
5	4.3	2.1	3.0	5.2	2.6	3.3	3.2	0.5	2.1	1.3	0.2	0.5
6	3.5	1.9	2.5	4.6	2.1	3.3	3.3	0.3	1.7	1.2	0.1	0.5
7	3.1	1.5	2.2	4.5	1.6	2.8	2.6	0.2	1.4	1.7	0.1	0.7
8	3.4	1.3	1.9	4.4	1.2	2.4	2.5	0.3	1.4	1.6	0.2	0.8
9	3.6	1.0	1.8	4.7	1.1	2.4	2.7	0.2	1.3	2.0	0.2	0.7
10	3.9	0.8	1.8	4.2	0.7	2.1	2.7	0.2	1.4	1.7	0.2	0.6
11	3.7	0.3	1.5	4.1	0.5	2.0	3.1	1.0	1.9	1.7	0.2	0.8
12	4.0	0.2	1.5	3.9	0.8	2.4	3.5	0.6	1.8	1.8	0.7	1.1
13	3.4	0.1	1.4	4.2	1.1	2.9	3.4	0.6	1.8	2.2	1.0	1.6
14	3.1	0.1	1.6	4.5	1.9	3.4	3.3	0.6	1.7	2.3	1.2	1.7
15	3.5	0.8	2.2	5.0	1.9	3.4	3.0	0.8	1.7	1.5	0.9	1.2
16	3.2	0.5	2.1	5.0	1.7	3.1	3.4	0.8	2.1	0.9	0.3	0.7
17	2.7	0.3	1.5	4.8	1.6	3.1	2.7	1.0	2.0	0.7	0.2	0.5
18	3.6	0.2	1.5	4.6	1.4	2.8	3.0	0.8	1.7	0.8	0.2	0.5
19	3.4	0.3	1.5	4.6	1.6	2.9	2.6	0.6	1.5	1.7	0.4	1.0
20	3.8	0.3	1.6	4.4	1.2	2.7	2.4	0.4	1.4	1.5	0.8	1.3
21	3.0	0.4	1.6	4.5	1.3	2.7	2.6	0.6	1.6	1.5	0.7	1.2
22	3.2	0.2	1.5	4.6	1.0	2.6	2.6	0.8	1.8	1.5	1.0	1.1
23	3.1	0.2	1.4	4.5	1.0	2.6	2.8	1.1	2.0	1.2	0.2	0.6
24	3.0	0.2	1.3	4.4	0.9	2.5	3.4	1.3	2.3	1.7	0.2	0.7
25	2.3	0.4	1.3	3.8	1.3	2.6	3.4	1.1	2.3	1.8	0.3	0.8
26	2.5	0.7	1.4	4.2	1.5	2.8	3.4	1.3	2.4	2.2	0.2	0.7
27	2.3	0.8	1.4	4.4	1.6	3.0	3.3	1.2	2.3	2.0	0.2	0.7
28	2.0	0.8	1.4	4.9	1.9	3.4	3.0	1.1	1.9	2.0	0.1	0.6
29	2.5	1.2	1.7	5.3	2.0	3.6	1.7	0.9	1.3	2.0	0.1	0.6
30	2.2	1.1	1.6	4.5	2.3	3.4	1.3	0.6	0.9	2.7	0.1	0.9
31	---	---	---	5.1	2.0	3.5	1.8	0.5	0.9	---	---	---
MONTH	4.4	0.1	2.0	5.3	0.5	2.8	4.6	0.2	1.8	2.7	0.1	0.8

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	22.0	21.5	21.5	15.5	15.0	15.5	9.0	9.0	9.0	3.5	2.0	3.0
2	21.5	21.0	21.0	15.5	15.0	15.0	9.5	9.0	9.0	3.0	1.5	2.5
3	21.5	20.5	21.0	15.5	14.5	15.0	9.5	9.0	9.0	3.0	2.0	2.5
4	21.0	20.0	20.5	15.0	14.5	15.0	9.5	9.0	9.5	3.5	2.0	2.5
5	20.5	20.0	20.5	15.0	14.5	14.5	9.0	8.0	8.5	3.5	2.0	3.0
6	20.5	20.0	20.0	14.5	13.5	14.0	9.0	8.0	8.5	3.5	3.0	3.0
7	20.5	20.0	20.5	14.0	13.5	14.0	8.0	6.0	7.0	3.5	2.0	3.0
8	21.0	20.0	20.5	14.0	13.5	13.5	7.0	5.5	6.0	3.0	2.0	2.5
9	21.0	20.0	20.5	14.0	13.5	13.5	6.5	5.5	6.0	3.0	1.5	2.0
10	21.0	20.5	20.5	14.0	13.5	13.5	6.5	5.5	6.0	3.0	1.5	2.0
11	21.0	20.5	20.5	14.0	13.5	14.0	6.5	5.5	6.0	3.0	1.5	2.0
12	21.0	20.5	20.5	14.5	14.0	14.0	6.5	5.5	6.0	3.0	2.0	2.0
13	21.0	20.5	20.5	14.5	14.0	14.0	6.5	5.5	6.0	3.0	1.5	2.0
14	21.0	20.5	21.0	14.5	14.0	14.5	6.5	6.0	6.0	2.0	1.5	1.5
15	21.0	20.5	21.0	14.5	14.0	14.0	6.0	5.5	6.0	2.0	1.5	2.0
16	21.0	20.0	20.5	14.0	13.5	14.0	6.0	5.5	5.5	3.0	1.5	2.0
17	20.0	18.5	19.5	13.5	13.0	13.0	6.5	5.5	6.0	2.0	1.0	1.5
18	19.0	18.0	18.5	13.0	12.0	12.5	6.5	6.0	6.0	1.5	1.0	1.5
19	18.5	17.0	18.0	13.0	12.0	12.0	6.5	6.0	6.0	1.5	1.0	1.0
20	18.5	16.5	17.0	12.0	12.0	12.0	6.5	6.0	6.0	1.5	0.5	1.0
21	18.0	16.5	17.0	12.0	11.5	11.5	6.5	5.5	6.0	1.5	0.0	0.5
22	18.0	16.5	17.0	11.5	11.5	11.5	6.0	5.5	6.0	1.0	0.5	1.0
23	18.5	17.0	18.0	11.5	11.0	11.0	6.5	5.5	5.5	1.5	0.5	1.0
24	18.5	17.0	18.0	11.0	10.0	10.0	6.0	5.5	5.5	1.5	0.5	1.0
25	18.5	18.0	18.0	10.0	9.0	9.5	6.0	5.0	5.5	1.5	0.5	1.0
26	18.5	17.0	18.0	9.5	8.5	9.0	5.5	5.0	5.0	1.5	1.0	1.0
27	18.0	16.5	17.0	9.0	8.5	9.0	5.0	4.0	4.5	2.0	0.5	1.0
28	17.0	16.0	16.5	9.0	8.5	9.0	5.0	4.0	4.5	1.0	0.0	0.5
29	16.5	15.5	16.0	9.0	9.0	9.0	4.5	3.5	4.0	0.5	0.0	0.0
30	16.0	15.0	15.5	9.5	9.0	9.0	4.0	3.0	3.5	0.0	0.0	0.0
31	15.5	15.0	15.5	---	---	---	3.5	3.0	3.5	0.5	0.0	0.0
MONTH	22.0	15.0	19.0	15.5	8.5	12.5	9.5	3.0	6.0	3.5	0.0	1.5

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	0.5	0.0	0.0	6.5	6.0	---	7.0	6.5	6.5	13.5	12.0	12.5
2	0.5	0.0	0.0	6.5	6.0	6.0	8.0	6.5	7.0	13.5	13.0	13.0
3	---	---	---	6.0	5.5	6.0	8.5	7.0	7.5	13.5	13.0	13.0
4	---	---	---	6.0	5.0	5.5	9.0	8.0	8.0	13.5	13.0	13.0
5	---	---	---	5.5	4.5	5.0	9.0	8.0	8.5	14.0	13.0	13.5
6	---	---	---	5.5	5.0	5.0	8.5	8.0	8.5	14.0	13.5	13.5
7	---	---	---	5.5	5.0	5.0	8.5	8.0	8.0	14.5	13.5	14.0
8	0.5	0.5	---	5.5	4.5	5.0	9.0	8.0	8.5	14.5	14.0	14.0
9	1.5	0.5	0.5	5.0	4.0	4.5	9.5	8.5	9.0	14.5	14.0	14.0
10	1.5	0.5	1.0	4.5	4.5	4.5	9.5	9.0	9.0	15.0	14.0	14.5
11	1.0	0.5	0.5	5.0	4.5	4.5	10.0	9.0	9.5	15.5	14.5	15.0
12	1.5	0.5	1.0	5.0	4.5	4.5	10.5	9.5	10.0	15.5	15.0	15.0
13	2.0	0.5	1.0	5.0	4.5	5.0	10.5	10.0	10.0	15.5	15.0	15.5
14	3.0	1.0	2.0	5.5	5.0	5.0	11.0	10.0	10.5	16.0	15.0	15.5
15	3.0	2.0	2.0	6.0	5.0	5.5	10.5	10.0	10.5	16.0	15.5	16.0
16	2.0	1.5	2.0	6.5	5.5	6.0	10.5	10.0	10.5	16.0	15.5	15.5
17	3.0	2.0	2.0	6.5	6.0	6.0	11.0	10.5	10.5	16.5	15.5	16.0
18	3.0	2.0	2.5	6.5	6.0	6.5	11.0	10.5	11.0	17.0	16.0	16.5
19	3.5	2.0	3.0	6.5	6.0	6.0	11.5	10.5	11.0	18.0	16.5	17.0
20	4.0	3.0	3.0	7.0	6.0	6.5	12.0	11.0	11.5	18.0	17.0	17.5
21	4.0	3.5	3.5	7.0	6.5	6.5	13.0	11.5	12.0	18.0	17.0	18.0
22	4.0	3.5	---	7.0	6.0	6.5	13.0	12.0	12.0	18.0	17.0	17.5
23	---	---	---	8.0	6.5	7.0	12.0	11.5	12.0	18.0	17.0	17.5
24	---	---	---	7.0	6.5	7.0	13.0	11.5	12.0	18.5	18.0	18.0
25	---	---	---	7.0	6.5	6.5	13.0	12.0	12.0	18.5	18.0	18.5
26	---	---	---	6.5	6.0	6.5	13.0	12.0	12.0	19.0	18.5	18.5
27	---	---	---	6.0	6.0	6.0	13.0	11.5	12.0	19.0	18.5	18.5
28	---	---	---	6.5	6.0	6.0	13.0	12.0	12.0	19.0	18.5	18.5
29	---	---	---	6.5	6.0	6.5	13.0	12.0	12.0	19.0	18.5	18.5
30	---	---	---	6.5	6.0	6.5	13.0	12.0	12.5	18.5	18.0	18.0
31	---	---	---	6.5	6.0	6.5	---	---	---	18.5	18.0	18.0
MONTH	---	---	---	8.0	4.0	6.0	13.0	6.5	10.0	19.0	12.0	16.0

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	18.5	18.0	18.0	26.5	25.5	26.0	26.5	26.0	26.5	24.0	24.0	24.0
2	19.0	18.5	18.5	26.5	26.0	26.0	26.5	26.0	26.5	24.0	23.5	23.5
3	19.5	18.5	19.0	26.0	25.5	25.5	27.0	26.5	26.5	24.0	23.5	23.5
4	20.0	19.0	19.5	26.0	25.5	25.5	27.0	26.5	26.5	24.0	23.5	24.0
5	20.5	19.5	20.0	26.0	25.5	25.5	26.5	26.0	26.0	24.5	24.0	24.0
6	21.0	20.0	20.5	26.5	25.5	26.0	26.5	26.0	26.0	25.0	24.0	24.5
7	21.5	20.5	21.0	26.5	26.0	26.0	27.0	26.0	26.0	25.0	24.5	24.5
8	22.0	21.0	21.5	27.0	26.0	26.5	27.0	26.0	26.5	25.0	24.5	24.5
9	22.0	21.5	22.0	27.0	26.5	26.5	27.0	26.0	26.5	25.5	24.5	25.0
10	23.0	21.5	22.0	27.0	26.5	26.5	28.0	26.5	27.0	25.5	25.0	25.0
11	23.0	22.0	22.5	26.5	26.0	26.5	27.0	26.5	27.0	25.5	25.0	25.5
12	23.5	22.0	23.0	26.0	25.5	26.0	27.0	26.5	26.5	25.5	25.0	25.5
13	23.5	23.0	23.0	26.0	25.5	26.0	26.5	26.0	26.5	25.0	24.0	25.0
14	23.5	23.0	23.0	26.0	25.5	25.5	27.0	26.0	26.5	24.0	23.5	24.0
15	23.0	22.0	22.5	26.0	25.0	25.5	27.0	26.0	26.5	24.0	23.5	23.5
16	22.0	21.5	22.0	26.0	25.5	25.5	26.5	26.0	26.0	24.0	23.5	24.0
17	23.0	21.5	22.0	26.0	25.5	25.5	26.5	26.0	26.0	24.0	23.5	24.0
18	23.0	22.0	22.5	26.0	25.5	25.5	26.5	26.0	26.5	24.0	23.5	24.0
19	23.5	22.0	23.0	26.0	25.5	26.0	26.5	26.0	26.0	24.0	23.5	23.5
20	23.5	23.0	23.5	26.0	25.5	25.5	26.5	26.0	26.0	24.0	23.5	23.5
21	24.0	23.5	23.5	26.0	25.5	25.5	26.5	26.0	26.0	24.0	23.5	23.5
22	24.5	23.5	24.0	26.0	25.0	25.5	26.5	26.0	26.5	23.5	23.0	23.5
23	24.5	24.0	24.0	26.0	25.5	25.5	26.5	26.0	26.0	23.0	23.0	23.0
24	25.0	24.0	24.5	26.0	25.5	25.5	26.0	25.5	25.5	23.0	22.0	22.5
25	25.5	24.5	25.0	26.5	25.5	26.0	25.5	25.0	25.5	22.0	21.5	22.0
26	25.5	25.0	25.0	26.5	26.0	26.0	25.5	25.0	25.0	21.5	21.0	21.5
27	26.0	25.0	25.5	26.5	26.0	26.5	25.5	25.0	25.0	21.5	21.0	21.0
28	26.0	25.5	25.5	26.5	26.0	26.0	25.0	24.5	24.5	21.5	21.0	21.0
29	25.5	25.5	25.5	26.5	26.0	26.5	25.0	24.0	24.0	21.5	21.0	21.5
30	26.0	25.5	25.5	26.5	26.0	26.0	25.0	24.0	24.0	21.5	21.0	21.5
31	---	---	---	26.5	26.0	26.5	24.5	24.0	24.0	---	---	---
MONTH	26.0	18.0	22.5	27.0	25.0	26.0	28.0	24.0	26.0	25.5	21.0	23.5

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.- Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.8	6.4	6.6	---	---	---	8.1	6.4	7.0	---	---	---
2	6.8	6.4	6.6	---	---	---	8.3	7.1	7.9	---	---	---
3	6.8	6.0	6.5	---	---	---	7.6	6.6	7.1	---	---	---
4	6.8	6.4	6.6	8.3	6.8	---	7.7	6.4	6.9	---	---	---
5	6.6	6.3	---	7.7	6.8	7.2	6.8	6.4	6.5	---	---	---
6	---	---	---	7.0	6.8	6.9	6.6	6.5	6.6	6.7	6.7	---
7	---	---	---	8.0	6.7	7.1	6.9	6.4	6.7	6.8	6.6	6.7
8	---	---	---	7.2	6.7	7.0	7.0	6.6	6.7	6.8	6.4	6.7
9	---	---	---	6.9	6.5	6.8	6.8	6.5	6.6	6.8	6.6	6.7
10	---	---	---	9.3	6.6	8.1	6.8	6.4	6.6	6.8	6.5	6.6
11	---	---	---	9.3	8.8	9.1	6.7	5.5	6.3	6.7	6.4	6.6
12	---	---	---	9.1	8.7	9.0	6.7	5.4	6.1	6.6	6.5	6.6
13	---	---	---	9.3	8.6	8.9	7.1	6.0	6.4	6.6	5.6	---
14	---	---	---	8.6	7.6	8.0	6.6	6.3	6.5	---	---	---
15	---	---	---	8.4	7.0	7.9	6.6	6.4	6.5	---	---	---
16	---	---	---	7.0	6.9	6.9	7.2	6.1	6.5	---	---	---
17	---	---	---	7.0	6.9	6.9	8.0	6.5	6.9	---	---	---
18	---	---	---	6.9	6.7	6.9	6.6	6.5	6.5	---	---	---
19	---	---	---	7.2	6.5	6.8	6.6	6.5	6.5	---	---	---
20	---	---	---	7.2	6.4	6.7	6.6	6.5	6.6	---	---	---
21	---	---	---	7.0	6.7	6.9	7.0	6.5	6.6	---	---	---
22	---	---	---	7.1	6.8	6.9	6.6	6.5	6.6	---	---	---
23	---	---	---	7.1	6.8	7.0	6.6	6.3	6.5	---	---	---
24	---	---	---	7.1	6.8	7.0	6.7	6.3	6.6	---	---	---
25	---	---	---	7.1	6.8	7.0	6.7	6.6	6.7	---	---	---
26	---	---	---	7.1	6.8	7.0	6.8	6.6	6.7	---	---	---
27	---	---	---	7.1	6.8	6.9	6.8	6.7	6.7	---	---	---
28	---	---	---	7.0	6.8	6.9	6.8	6.7	6.8	---	---	---
29	---	---	---	7.4	6.8	7.0	7.3	6.7	6.8	---	---	---
30	---	---	---	7.5	6.5	7.0	6.9	6.8	6.8	---	---	---
31	---	---	---	---	---	---	6.9	6.7	6.8	---	---	---
MONTH	---	---	---	9.3	6.4	7.3	8.3	5.4	6.7	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	6.5	6.3	---
8	---	---	---	---	---	---	---	---	---	6.5	6.3	6.4
9	---	---	---	---	---	---	---	---	---	6.5	6.4	6.4
10	---	---	---	---	---	---	---	---	---	6.5	6.3	6.4
11	---	---	---	---	---	---	---	---	---	6.5	6.4	6.4
12	---	---	---	---	---	---	---	---	---	6.5	6.4	6.4
13	---	---	---	---	---	---	---	---	---	6.6	6.4	6.5
14	---	---	---	---	---	---	---	---	---	6.6	6.4	6.5
15	---	---	---	---	---	---	---	---	---	6.6	6.4	6.5
16	---	---	---	---	---	---	---	---	---	6.6	6.4	6.5
17	---	---	---	---	---	---	---	---	---	6.7	6.5	6.6
18	---	---	---	---	---	---	---	---	---	6.7	6.5	6.6
19	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
20	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
21	---	---	---	---	---	---	---	---	---	6.6	6.5	6.5
22	---	---	---	---	---	---	---	---	---	6.6	6.5	6.5
23	---	---	---	---	---	---	---	---	---	6.6	6.4	6.5
24	---	---	---	---	---	---	---	---	---	6.6	6.4	6.6
25	---	---	---	---	---	---	---	---	---	6.7	6.5	6.6
26	---	---	---	---	---	---	---	---	---	6.7	6.5	6.6
27	---	---	---	---	---	---	---	---	---	6.6	6.5	6.6
28	---	---	---	---	---	---	---	---	---	6.9	6.5	6.7
29	---	---	---	---	---	---	---	---	---	6.9	6.9	6.9
30	---	---	---	---	---	---	---	---	---	6.9	6.9	6.9
31	---	---	---	---	---	---	---	---	---	6.9	6.9	6.9
MONTH	---	---	---	---	---	---	---	---	---	6.9	6.3	---

01482100 DELAWARE RIVER AT DELAWARE MEMORIAL BRIDGE, NEAR WILMINGTON, DEL.--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.9	6.9	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.

LOCATION.--Lat 39°30'03", long 75°34'07", New Castle County, water-quality recorder located on platform about 0.4 mile downstream from Reedy Island near Port Penn.
DRAINAGE AREA.--11,222 sq mi, approximately.
PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1971.
EXTREMES.--1970-71:
Specific conductance: Maximum, 17,720 micromhos Oct. 2; minimum, 400 micromhos Sept. 15, 18.
Dissolved oxygen: Minimum, 0.3 mg/l Sept. 16-17.
Water temperatures: Maximum, 27.0°C Aug. 1.
pH: Maximum, 8.3 Aug. 31, Sept. 14; minimum, 6.0 Aug. 20.
Period of record:
Specific conductance: Maximum, 35,400 micromhos Nov. 7, 1963; minimum, 100 micromhos on several days in 1969 and 1970.
Dissolved oxygen (1970-71): Maximum, 12.5 mg/l Feb. 14, 1970; minimum, 0.3 Sept. 16-17, 1971.
Temperature (1970-71): Maximum, 28.5°C Aug. 2, 1970.
pH (1970-71): Maximum, 8.3 Aug. 31, Sept. 14, 1971; minimum, 6.0 Aug. 20, 1971.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	14880	10000	11880	---	---	---	---	---	---	---	---	---
2	17720	10880	13450	---	---	---	---	---	---	---	---	---
3	16720	10400	13510	---	---	---	---	---	---	---	---	---
4	15360	9280	11920	---	---	---	---	---	---	---	---	---
5	15800	9640	12260	---	---	---	---	---	---	---	---	---
6	16160	9840	12490	---	---	---	---	---	---	---	---	---
7	16000	9800	12710	---	---	---	---	---	---	---	---	---
8	13960	9040	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	10620	5160	7290	11080	2440	5750
2	---	---	---	---	---	---	8100	4980	---	10280	3000	5490
3	---	---	---	---	---	---	---	---	---	10360	3360	5600
4	---	---	---	---	---	---	---	---	---	9840	3440	5410
5	---	---	---	---	---	---	---	---	---	9600	3240	5250
6	---	---	---	---	---	---	---	---	---	10440	3280	5590
7	---	---	---	---	---	---	---	---	---	10160	3680	6280
8	---	---	---	---	---	---	---	---	---	9640	4080	6070
9	---	---	---	---	---	---	---	---	---	10360	3840	6140
10	---	---	---	---	---	---	---	---	---	10320	4040	6070
11	---	---	---	---	---	---	---	---	---	10480	4400	6530
12	---	---	---	---	---	---	---	---	---	7920	4040	5540
13	---	---	---	---	---	---	---	---	---	5760	3240	4380
14	---	---	---	---	---	---	---	---	---	3440	480	1800
15	---	---	---	---	---	---	---	---	---	4040	400	1170
16	---	---	---	---	---	---	---	---	---	4280	440	1200
17	---	---	---	---	---	---	---	---	---	3680	560	1210
18	---	---	---	---	---	---	---	---	---	5080	400	1610
19	---	---	---	---	---	---	13640	6000	---	4640	800	2130
20	---	---	---	13440	7320	---	12960	6640	9430	5320	1040	2650
21	---	---	---	13860	7380	9430	12200	6520	9100	4320	920	1930
22	---	---	---	13320	7560	9710	13200	6560	9200	4600	800	1870
23	---	---	---	13680	8040	10050	13900	6920	9470	5560	1120	2630
24	---	---	---	13560	7980	10030	12300	6680	9250	4960	1200	2570
25	---	---	---	13920	8100	10290	11400	10080	---	6080	1160	2970
26	---	---	---	13620	8160	10460	12000	7600	---	7080	1640	3820
27	---	---	---	13560	8100	10260	12300	7080	9470	7680	1840	4210
28	---	---	---	13440	8100	10310	9240	2360	5890	8560	1920	4810
29	---	---	---	12960	8400	10640	5000	800	2430	8720	2440	5210
30	---	---	---	11100	7290	9140	7720	800	2990	9600	2920	5570
31	---	---	---	10200	6480	8260	8160	1360	3870	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	11080	400	4050

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.0	5.3	6.2	---	---	---	---	---	---	---	---	---
2	6.8	6.0	6.4	---	---	---	---	---	---	---	---	---
3	6.7	6.0	6.3	---	---	---	---	---	---	---	---	---
4	6.6	5.8	6.3	---	---	---	---	---	---	---	---	---
5	6.4	5.6	6.0	---	---	---	---	---	---	---	---	---
6	7.2	5.6	6.5	---	---	---	---	---	---	---	---	---
7	7.1	6.4	6.7	---	---	---	---	---	---	---	---	---
8	7.0	6.5	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

DISSOLVED OXYGEN (DO), IN MILLIGRAMS PER LITER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.0	6.0	6.4	4.9	2.9	3.8
2	---	---	---	---	---	---	6.5	5.0	---	4.3	2.6	3.5
3	---	---	---	---	---	---	---	---	---	4.1	2.8	3.4
4	---	---	---	---	---	---	---	---	---	3.9	2.6	3.2
5	---	---	---	---	---	---	---	---	---	3.6	2.3	3.0
6	---	---	---	---	---	---	---	---	---	3.7	2.0	3.0
7	---	---	---	---	---	---	---	---	---	4.0	2.5	3.4
8	---	---	---	---	---	---	---	---	---	3.7	2.6	3.3
9	---	---	---	---	---	---	---	---	---	3.7	2.6	3.2
10	---	---	---	---	---	---	---	---	---	3.6	2.6	3.1
11	---	---	---	---	---	---	---	---	---	3.8	3.0	3.4
12	---	---	---	---	---	---	---	---	---	3.8	3.0	3.4
13	---	---	---	---	---	---	---	---	---	3.9	3.4	3.7
14	---	---	---	---	---	---	---	---	---	3.3	1.3	2.5
15	---	---	---	---	---	---	---	---	---	2.3	0.7	1.6
16	---	---	---	---	---	---	---	---	---	1.9	0.3	1.1
17	---	---	---	---	---	---	---	---	---	1.6	0.3	1.2
18	---	---	---	---	---	---	---	---	---	2.1	0.6	1.1
19	---	---	---	---	---	---	5.5	4.8	---	2.3	0.9	1.6
20	---	---	---	6.3	5.4	---	5.5	4.6	5.1	2.9	1.5	2.3
21	---	---	---	5.9	5.1	5.5	5.6	4.8	5.1	2.9	1.7	2.3
22	---	---	---	5.7	5.0	5.4	6.0	4.9	5.3	2.9	2.0	2.5
23	---	---	---	6.1	4.9	5.6	6.1	4.9	5.4	3.8	2.1	2.9
24	---	---	---	5.9	5.1	5.5	6.4	5.6	5.9	3.7	2.6	3.3
25	---	---	---	5.8	5.1	5.5	6.0	6.0	---	4.4	3.3	3.9
26	---	---	---	6.2	5.2	5.6	6.3	5.8	---	4.9	3.7	4.3
27	---	---	---	6.0	5.3	5.7	6.3	5.8	6.0	4.9	3.8	4.3
28	---	---	---	6.6	5.5	5.9	6.4	4.3	5.8	5.2	3.7	4.4
29	---	---	---	6.5	5.8	6.1	5.2	3.3	4.2	5.0	3.7	4.4
30	---	---	---	6.6	5.8	6.1	4.6	2.6	3.7	5.1	3.8	4.5
31	---	---	---	6.8	5.9	6.3	5.5	2.6	4.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	5.2	0.3	3.1

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	21.0	20.5	21.0	---	---	---	---	---	---	---	---	---
2	20.5	20.5	20.5	---	---	---	---	---	---	---	---	---
3	20.5	20.0	20.5	---	---	---	---	---	---	---	---	---
4	20.5	19.5	20.0	---	---	---	---	---	---	---	---	---
5	20.0	19.0	19.5	---	---	---	---	---	---	---	---	---
6	20.0	19.0	19.5	---	---	---	---	---	---	---	---	---
7	20.5	19.0	19.5	---	---	---	---	---	---	---	---	---
8	20.5	19.5	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	27.0	26.0	26.0	24.5	23.5	24.0
2	---	---	---	---	---	---	26.0	26.0	---	24.0	23.5	23.5
3	---	---	---	---	---	---	---	---	---	24.5	23.0	23.5
4	---	---	---	---	---	---	---	---	---	24.5	23.5	24.0
5	---	---	---	---	---	---	---	---	---	25.0	23.5	24.0
6	---	---	---	---	---	---	---	---	---	25.0	24.0	24.5
7	---	---	---	---	---	---	---	---	---	25.0	24.0	24.5
8	---	---	---	---	---	---	---	---	---	25.0	24.0	24.5
9	---	---	---	---	---	---	---	---	---	25.5	24.5	25.0
10	---	---	---	---	---	---	---	---	---	26.0	24.5	25.0
11	---	---	---	---	---	---	---	---	---	26.0	25.0	25.0
12	---	---	---	---	---	---	---	---	---	25.5	25.0	25.0
13	---	---	---	---	---	---	---	---	---	25.0	24.5	25.0
14	---	---	---	---	---	---	---	---	---	25.0	24.5	24.5
15	---	---	---	---	---	---	---	---	---	25.5	24.0	24.5
16	---	---	---	---	---	---	---	---	---	25.0	24.0	24.5
17	---	---	---	---	---	---	---	---	---	24.5	24.0	24.0
18	---	---	---	---	---	---	---	---	---	24.5	24.0	24.0
19	---	---	---	---	---	---	26.0	25.5	---	24.5	24.0	24.0
20	---	---	---	25.5	24.5	---	26.0	25.5	25.5	24.5	23.5	24.0
21	---	---	---	26.0	24.5	25.0	26.5	25.5	26.0	24.0	23.0	23.5
22	---	---	---	26.0	24.5	25.0	26.5	25.5	26.0	23.5	22.0	23.0
23	---	---	---	25.5	24.5	25.0	26.0	25.5	25.5	23.0	22.0	22.5
24	---	---	---	26.0	24.5	25.0	25.5	24.5	25.0	23.0	21.5	22.0
25	---	---	---	26.0	25.0	25.5	25.0	25.0	---	21.5	20.5	21.0
26	---	---	---	26.0	25.5	25.5	25.0	24.5	---	21.5	20.5	21.0
27	---	---	---	26.5	25.5	26.0	24.5	24.0	24.0	21.0	20.5	20.5
28	---	---	---	26.5	25.0	25.5	24.5	23.5	24.0	21.0	20.5	20.5
29	---	---	---	26.5	25.5	26.0	25.0	24.0	24.5	21.0	20.5	20.5
30	---	---	---	26.5	25.5	26.0	25.0	24.0	24.5	21.0	20.5	20.5
31	---	---	---	26.5	25.5	26.0	24.5	24.0	24.5	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	26.0	20.5	23.5

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	7.3	7.0	---	---	---	---	---	---	---	---	---	---
3	7.1	6.9	7.0	---	---	---	---	---	---	---	---	---
4	7.0	6.7	6.9	---	---	---	---	---	---	---	---	---
5	7.0	6.7	6.8	---	---	---	---	---	---	---	---	---
6	7.0	6.7	6.9	---	---	---	---	---	---	---	---	---
7	7.9	6.9	7.6	---	---	---	---	---	---	---	---	---
8	7.8	7.6	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

01482800 DELAWARE RIVER AT REEDY ISLAND JETTY, DEL.--Continued

pH (UNITS), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	7.2	6.8	7.0	7.9	7.6	7.8
2	---	---	---	---	---	---	6.9	6.7	---	7.6	7.0	7.4
3	---	---	---	---	---	---	---	---	---	7.5	7.2	7.4
4	---	---	---	---	---	---	---	---	---	7.5	7.3	7.4
5	---	---	---	---	---	---	---	---	---	7.5	7.3	7.4
6	---	---	---	---	---	---	---	---	---	7.4	7.2	7.4
7	---	---	---	---	---	---	---	---	---	7.5	7.3	7.4
8	---	---	---	---	---	---	---	---	---	7.5	7.2	7.3
9	---	---	---	---	---	---	---	---	---	7.5	7.2	7.3
10	---	---	---	---	---	---	---	---	---	7.6	7.3	7.4
11	---	---	---	---	---	---	---	---	---	7.5	7.2	7.4
12	---	---	---	---	---	---	---	---	---	7.6	7.2	7.5
13	---	---	---	---	---	---	---	---	---	7.6	7.3	7.5
14	---	---	---	---	---	---	---	---	---	8.3	7.4	7.7
15	---	---	---	---	---	---	---	---	---	8.2	7.0	7.6
16	---	---	---	---	---	---	---	---	---	7.9	7.0	7.5
17	---	---	---	---	---	---	---	---	---	8.2	7.0	7.6
18	---	---	---	---	---	---	---	---	---	8.2	7.1	7.6
19	---	---	---	---	---	---	6.3	6.1	---	8.1	7.2	7.5
20	---	---	---	7.5	7.0	---	6.6	6.0	6.3	8.2	7.2	7.5
21	---	---	---	7.5	7.2	7.4	6.6	6.1	6.4	7.9	7.3	---
22	---	---	---	7.4	7.0	7.4	6.8	6.4	6.7	---	---	---
23	---	---	---	7.4	7.2	7.3	7.2	6.5	6.9	6.8	6.4	---
24	---	---	---	7.4	7.0	7.2	7.4	6.9	7.1	6.9	6.5	6.7
25	---	---	---	7.2	6.9	7.1	7.2	7.1	---	7.1	6.6	6.8
26	---	---	---	7.2	6.9	7.0	7.5	7.3	---	7.1	6.7	6.9
27	---	---	---	7.1	6.8	7.0	7.4	7.1	7.3	7.2	6.7	6.9
28	---	---	---	7.1	6.8	7.0	7.4	7.1	7.3	7.2	6.7	6.9
29	---	---	---	7.2	6.8	7.0	7.6	7.0	7.3	7.3	6.6	7.0
30	---	---	---	7.1	6.8	6.9	8.2	7.5	7.8	7.3	6.7	7.0
31	---	---	---	7.1	6.8	7.0	8.3	7.7	8.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	8.3	6.4	7.3

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
01440000 - FLAT BR NR FLATBROOKVILLE NJ (LAT 41 06 24 LONG 074 57 09)									
DEC., 1970 09...	E74	--	--	--	20	4.5	--	9.4	--
MAY , 1971 19...	E137	3.3	--	22	16	3.5	2.5	--	.6
JULY 14...	E25	--	--	--	32	7.2	--	5.5	--
SEP. 21...	E127	4.2	130	18	17	3.7	3.4	--	1.4
01445500 - PEQUEST R AT PEQUEST NJ (LAT 40 49 43 LONG 074 58 45)									
DEC., 1970 09...	E117	--	--	--	57	26	--	8.5	--
MAY , 1971 19...	E181	4.6	--	8	49	20	7.0	--	.9
JULY 14...	E53	--	--	--	53	25	--	12	--
SEP. 21...	E188	9.0	120	20	53	21	8.1	--	2.2
01457000 - MUSCONETCONG R NR BLOOMSBURY NJ (LAT 40 40 20 LONG 075 03 40)									
DEC., 1970 09...	162	--	--	--	25	12	--	9.9	--
MAY , 1971 19...	330	9.2	--	16	23	9.7	10	--	1.4
JULY 14...	90	--	--	--	31	15	--	6.0	--
SEP. 21...	496	9.4	120	23	22	7.8	9.2	--	4.3
01464000 - ASSUNPINK CR AT TRENTON NJ (LAT 40 13 27 LONG 074 44 58)									
DEC., 1970 10...	55	--	--	--	20	8.0	--	27	--
APR., 1971 16...	105	9.0	350	190	16	7.2	20	--	8.4
JULY 15...	25	--	--	--	21	8.0	--	59	--
SEP. 23...	170	--	220	140	--	--	--	--	--
01464500 - CROSSWICKS CREEK AT EXTONVILLE, N.J. (LAT 40 04 55 LONG 074 51 58)									
DEC., 1970 10...	69	--	--	--	16	3.1	--	7.6	--
JUNE, 1971 10...	64	9.5	1300	67	13	2.4	7.8	--	4.6
JULY 15...	31	--	--	--	16	3.1	--	13	--
SEP. 23...	204	9.3	890	120	10	2.7	4.7	--	4.8
01467150 - COOPER RIVER AT HADDONFIELD, N.J. (LAT 39 54 11 LONG 075 01 19)									
DEC., 1970 09...	E15	--	--	--	16	4.4	--	16	--
JUNE, 1971 10...	E16	13	240	40	16	4.2	21	--	8.6
JULY 14...	E14	--	--	--	17	4.2	--	36	--
SEP. 25...	E22	12	400	80	17	4.4	15	--	6.8

E Provisional record, subject to revision. See "Part 1. Surface Water Records" for final discharge figure.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM PLUS PO-TAS-SIUM (NA+K) (MG/L)	PO-TAS-SIUM (K) (MG/L)
01477200 - DELAWARE RIVER AT MARCUS HOOK, PA. (LAT 39 42 10 LONG 075 25 00)									
OCT., 1970 14...	--	2.7	--	--	30	18	91	--	6.0
NOV. 05...	--	1.8	--	--	20	7.0	16	--	3.6
DEC. 08...	--	.3	--	--	19	6.8	19	--	3.3
JAN., 1971 07...	--	1.5	--	--	22	7.1	16	--	3.1
FEB. 25...	--	6.2	--	--	17	5.4	11	--	2.5
MAR. 11...	--	6.5	--	--	16	5.3	11	--	2.1
APR. 08...	--	4.5	--	--	18	4.0	12	--	1.9
MAY 08...	--	2.0	--	--	25	9.7	26	--	4.0
18...	--	4.5	--	--	19	6.6	15	--	2.6
JUNE 08...	--	3.3	--	--	19	6.0	14	--	2.4
JULY 15...	--	3.1	--	--	27	19	125	--	8.2
AUG. 05...	--	.3	--	--	18	6.4	11	--	2.6
01483000 - ALLOWAY CR AT ALLOWAY NJ RESERVOIR (LAT 39 33 55 LONG 075 21 35)									
DEC., 1970 10...	E11	--	--	--	8.5	5.9	--	6.2	--
JUNE, 1971 10...	E12	2.8	400	38	7.3	4.2	4.9	--	3.9
JULY 14...	E3.2	--	--	--	7.3	5.1	--	7.8	--
SEP. 25...	E14	7.2	1000	94	6.3	3.4	3.9	--	4.5

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)
01440000 - FLAT BR NR FLATBROOKVILLE NJ (LAT 41 06 24 LONG 074 57 09)								
DEC., 1970 09...	60	0	49	26	9.0	--	.5	.01
MAY , 1971 19...	41	0	34	18	4.1	.2	.4	.05
JULY 14...	103	0	84	22	9.5	--	.7	.03
SEP. 21...	49	0	40	15	5.3	.1	.6	.02
01445500 - PEQUEST R AT PEQUEST NJ (LAT 40 49 43 LONG 074 58 45)								
DEC., 1970 09...	224	6	194	52	15	--	5.1	.07
MAY , 1971 19...	195	0	160	32	17	.3	3.7	.12
JULY 14...	229	0	188	38	21	--	4.6	.08
SEP. 21...	210	0	172	38	15	.2	5.0	.26
01457000 - MUSCONETCONG R NR BLOOMSBURY NJ (LAT 40 40 20 LONG 075 03 40)								
DEC., 1970 09...	107	0	88	23	14	--	3.0	.22
MAY , 1971 19...	77	0	63	22	22	.2	4.7	.20
JULY 14...	136	0	112	18	11	--	8.1	.22
SEP. 21...	80	0	66	19	18	.4	4.9	.17

E Provisional record, subject to revision. See "Part 1. Surface Water Records" for final discharge figure.

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)
01464000 - ASSUNPINK CR AT TRENTON NJ (LAT 40 13 27 LONG 074 44 58)								
DEC., 1970								
10...	43	0	35	59	28	--	6.6	6.2
APR., 1971								
16...	34	0	28	47	24	.8	9.5	2.2
JULY								
15...	97	0	80	56	36	--	30	6.8
01464500 - CROSSWICKS CREEK AT EXTONVILLE, N.J. (LAT 40 04 55 LONG 074 51 58)								
DEC., 1970								
10...	24	0	20	25	9.6	--	13	.72
JUNE, 1971								
10...	22	0	18	22	9.6	.2	11	1.0
JULY								
15...	36	0	30	22	9.9	--	18	.51
SEP.								
23...	17	0	14	24	8.3	.0	3.8	.59
01467150 - COOPER RIVER AT HADDONFIELD, N.J. (LAT 39 54 11 LONG 075 01 19)								
DEC., 1970								
09...	21	0	17	33	23	--	11	3.5
JUNE, 1971								
10...	31	0	25	27	24	.1	35	1.5
JULY								
14...	38	0	31	47	23	--	33	1.9
SEP.								
25...	29	0	24	31	18	.1	28	.77
01477200 - DELAWARE RIVER AT MARCUS HOOK, PA. (LAT 39 42 10 LONG 075 25 00)								
OCT., 1970								
14...	34	0	28	99	159	.6	11	.01
NOV.								
05...	26	0	21	53	23	.3	9.0	.51
DEC.								
08...	14	0	11	55	33	1.1	7.0	.17
JAN., 1971								
07...	8	10	23	55	25	1.1	12	.50
FEB.								
25...	29	--	24	37	16	1.1	9.0	.69
MAR.								
11...	26	--	21	36	17	1.2	9.5	.47
APR.								
08...	12	8	23	40	15	.3	1.5	.02
MAY								
08...	52	0	43	62	31	.2	11	.81
18...	26	3	26	47	19	.5	13	.12
JUNE								
08...	31	0	25	44	19	.2	16	.60
JULY								
15...	14	9	26	94	227	.5	9.4	.02
AUG.								
05...	47	0	39	33	15	.2	8.0	.60
01483000 - ALLOWAY CR AT ALLOWAY NJ RESERVOIR (LAT 39 33 55 LONG 075 21 35)								
DEC., 1970								
10...	9	0	7	28	15	--	2.0	.04
JUNE, 1971								
10...	12	0	10	21	11	.4	3.2	.01
JULY								
14...	25	0	21	19	9.9	--	1.8	.03
SEP.								
25...	9	0	7	19	8.3	.2	2.4	.09

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01440000 - FLAT BR NR FLATBROOKVILLE NJ (LAT 41 06 24 LONG 074 57 09)									
DEC., 1970 09...	--	--	69	20	169	7.9	4	.6	--
MAY , 1971 19...	87	69	55	21	126	7.3	10	.5	8.0
JULY 14...	--	--	110	25	241	7.3	5	1.0	--
SEP. 21...	84	75	58	18	133	7.0	15	1.0	5.0
01445500 - PEQUEST R AT PEQUEST NJ (LAT 40 49 43 LONG 074 58 45)									
DEC., 1970 09...	--	--	249	61	476	8.4	10	.8	--
MAY , 1971 19...	278	231	205	45	426	8.3	20	1.4	8.5
JULY 14...	--	--	235	48	488	8.0	10	.3	--
SEP. 21...	263	255	219	47	454	7.9	--	.8	9.5
01457000 - MUSCONETCONG R NR BLOOMSBURY NJ (LAT 40 40 20 LONG 075 03 40)									
DEC., 1970 09...	--	--	112	25	263	8.1	5	1.2	--
MAY , 1971 19...	170	140	98	35	255	7.4	5	1.9	6.0
JULY 14...	--	--	139	28	306	7.6	5	1.7	--
SEP. 21...	132	134	87	22	239	7.2	1	1.6	5.5
01464000 - ASSUNPINK CR AT TRENTON NJ (LAT 40 13 27 LONG 074 44 58)									
DEC., 1970 10...	--	--	83	48	333	7.3	2	6.4	--
APR., 1971 16...	192	159	70	42	291	7.2	5	2.9	7.0
JULY 15...	--	--	86	6	459	7.2	5	6.3	--
SEP. 23...	--	--	--	--	--	--	--	6.0	--
01464500 - CROSSWICKS CREEK AT EXTONVILLE, N.J. (LAT 40 04 55 LONG 074 51 58)									
DEC., 1970 10...	--	--	53	34	164	6.7	5	3.6	--
JUNE, 1971 10...	114	91	43	25	146	6.8	90	5.4	11
JULY 15...	--	--	52	23	190	6.6	15	7.5	--
SEP. 23...	101	76	36	22	122	6.4	100	3.5	13
01467150 - COOPER RIVER AT HADDONFIELD, N.J. (LAT 39 54 11 LONG 075 01 19)									
DEC., 1970 09...	--	--	58	41	263	7.2	9	8.2	--
JUNE, 1971 10...	199	164	58	32	272	6.4	10	15	12
JULY 14...	--	--	60	29	312	6.9	18	9.9	--
SEP. 25...	158	147	61	37	237	6.1	10	7.0	9.0

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
01477200 - DELAWARE RIVER AT MARCUS HOOK, PA. (LAT 39 42 10 LONG 075 25 00)									
OCT., 1970 14...	467	--	149	121	777	6.8	15	--	--
NOV. 05...	161	--	79	58	257	6.7	7	--	--
DEC. 08...	174	--	76	64	298	7.0	1	--	--
JAN., 1971 07...	174	--	84	61	288	9.3	5	--	--
FEB. 25...	140	--	65	41	205	7.7	2	--	--
MAR. 11...	143	--	62	41	201	7.4	3	--	--
APR. 08...	126	--	62	38	197	8.9	1	--	--
MAY 08...	206	--	103	60	354	7.2	15	--	--
18...	156	--	75	48	241	9.0	2	--	--
JUNE 08...	134	--	72	47	231	7.0	6	--	--
JULY 15...	570	--	146	119	1030	9.7	5	--	--
AUG. 05...	132	--	72	33	231	7.3	3	--	--
01483000 - ALLOWAY CR AT ALLOWAY NJ RESERVOIR (LAT 39 33 55 LONG 075 21 35)									
DEC., 1970 10...	--	--	50	42	141	6.3	10	2.0	--
JUNE, 1971 10...	85	65	36	26	117	6.6	10	2.0	5.0
JULY 14...	--	--	39	19	120	6.8	15	3.8	--
SEP. 25...	72	60	30	22	95	6.3	50	3.4	8.0

DATE	DIS-SOLVEC ALUM-INUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BISMUTH (BI) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
01457000 - MUSCONETCONG R NR BLOOMSBURY NJ (LAT 40 40 20 LONG 075 03 40)								
SEP., 1971 21...	24	--	35	<0.7	<3	23	<15	<3
01464000 - ASSUNPINK CR AT TRENTON NJ (LAT 40 13 27 LONG 074 44 58)								
OCT., 1970 29...	--	0	--	--	--	--	0	--
SEP., 1971 23...	58	--	77	<0.6	<3	97	<13	9

DATE	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED GALLIUM (GA) (UG/L)	DIS-SOLVED GER-MANIUM (GE) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MOLY-BDENUM (MO) (UG/L)
01457000 - MUSCONETCONG R NR BLOOMSBURY NJ (LAT 40 40 20 LONG 075 03 40)									
SEP., 1971 21...	--	<2	9	<2	<3	4	<10	--	<2
01464000 - ASSUNPINK CR AT TRENTON NJ (LAT 40 13 27 LONG 074 44 58)									
OCT., 1970 29...	0	0	--	--	--	9	--	.0	--
SEP., 1971 23...	--	<2	12	<2	<3	5	<10	--	3

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SILVER (AG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED TIN (SN) (UG/L)	DIS-SOLVED TI-TANIUM (TI) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED ZIR-CONIUM (ZR) (UG/L)
01457000 - MUSCONETCONG R NR BLOOMSBURY NJ (LAT 40 40 20 LONG 075 03 40)								
SEP., 1971 21...	5	<0.3	67	<3	4	<2.0	<150	<7
01464000 - ASSUNPINK CR AT TRENTON NJ (LAT 40 13 27 LONG 074 44 58)								
OCT., 1970 29...	--	--	--	--	--	--	51	--
SEP., 1971 23...	10	<0.3	110	<3	4	<2.0	<130	<6

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
01440000 - FLAT BR NR FLATBROOKVILLE NJ (LAT 41 06 24 LONG 074 57 09)						
DEC., 1970 09...	1200	1.9	160	7.2	14.2	31
MAY , 1971 19...	1300	17.5	130	7.8	9.6	50
JULY 14...	1030	20.5	250	7.9	9.0	250
SEP. 21...	1300	18.4	125	7.5	9.4	0
01445500 - PEQUEST R AT PEQUEST NJ (LAT 40 49 43 LONG 074 58 45)						
DEC., 1970 09...	1400	3.3	500	7.7	13.4	238
MAY , 1971 19...	1500	20.4	460	8.7	11.6	740
JULY 14...	0830	18.4	500	7.4	8.0	4000
SEP. 21...	1130	18.3	400	8.1	8.6	5000
01457000 - MUSCONETCONG R NR BLOOMSBURY NJ (LAT 40 40 20 LONG 075 03 40)						
DEC., 1970 09...	1430	4.3	290	7.6	13.4	460
MAY , 1971 19...	1630	20.7	250	--	9.2	960
JULY 14...	0730	18.9	320	7.6	8.0	5300
SEP. 21...	0945	18.0	220	7.5	8.8	7900

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
01464000 - ASSUNPINK CR AT TRENTON NJ (LAT 40 13 27 LONG 074 44 58)						
DEC., 1970						
10...	1330	10.5	350	6.3	--	178000
APR., 1971						
16...	0900	11.4	300	7.3	9.8	--
JULY						
15...	0930	24.0	480	7.0	2.0	160000
01464500 - CROSSWICKS CREEK AT EXTONVILLE, N.J. (LAT 40 04 55 LONG 074 51 58)						
DEC., 1970						
10...	0900	3.9	175	6.9	9.0	867
JUNE, 1971						
10...	--	--	--	--	5.2	--
10...	0930	20.3	140	6.9	--	26800
JULY						
15...	0830	20.8	210	6.6	4.0	2500
SEP.						
23...	1200	18.7	110	7.2	7.0	3350
01467150 - COOPER RIVER AT HADDONFIELD, N.J. (LAT 39 54 11 LONG 075 01 19)						
DEC., 1970						
09...	1245	3.8	300	6.9	8.0	7000
JUNE, 1971						
10...	1730	25.1	310	--	9.6	68000
JULY						
14...	1515	25.0	290	7.4	7.0	3600
SEP.						
25...	1430	21.0	250	7.6	7.0	42500
01483000 - ALLOWAY CR AT ALLOWAY NJ RESERVOIR (LAT 39 33 55 LONG 075 21 35)						
DEC., 1970						
10...	1100	4.2	140	6.9	--	8
JUNE, 1971						
10...	1530	27.8	120	--	10.0	8600
JULY						
14...	0915	26.4	120	7.6	8.2	62
SEP.						
25...	1100	21.2	--	6.9	7.2	268

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
01440000 - FLAT BR NR FLATBROOKVILLE NJ (LAT 41 06 24 LONG 074 57 09)									
NOV 13, 1970	1200	317	10	8.6	MAY 14, 1971	1500	362	10	9.8
NOV 13......	1205	317	11	9.4	JUL 14......	1030	24	0	0.02
01457000 - MUSCONETCONG R NR BLOOMSBURY NJ (LAT 40 40 20 LONG 074 03 40)									
OCT 15, 1970	1700	470	72	91	MAY 13......	1415	415	262	294
OCT 22......	1200	450	64	78	MAY 13......	1645	465	153	192
NOV 13......	1000	400	38	41	MAY 19......	1615	346	20	19
FEB 23, 1971	1010	660	64	114	JUL 14......	0730	90	20	4.9
FEB 23......	1100	650	44	77	JUL 30......	1100	110	24	7.1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS--Continued

INSTANTANEOUS SUSPENDED SEDIMENT AND PARTICLE SIZE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

(METHODS OF ANALYSIS: B, BOTTOM WITHDRAWAL TUBE; C, CHEMICALLY DISPERSED; N, IN NATIVE WATER; P, PIPET; S, SIEVE; V, VISUAL ACCUMULATION TUBE; W, IN DISTILLED WATER)

DATE	TIME	WATER TEMPERATURE (C)	DISCHARGE (CFS)	CONCENTRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	PARTICLE SIZE PERCENT FINER THAN THE SIZE (IN MILLIMETERS) INDICATED .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	METHOD OF ANALYSIS
						01464000 - ASSUNPINK CR AT TRENTON NJ (LAT 40 13 27 LONG 074 44 58)											
OCT 22, 1970	0845	14.0	69	91	17	--	--	--	--	--	--	--	--	--	--	--	
OCT 22......	1200		80	27	5.8	--	--	--	--	--	--	--	--	--	--	--	
OCT 22......	1720		106	36	10	--	--	--	--	--	--	--	--	--	--	--	
FEB 8, 1971	0945	0.0	676	480	876	--	--	--	--	--	--	--	--	--	--	--	
FEB 8......	1400		1110	226	677	--	--	--	--	--	--	--	--	--	--	--	
FEB 8......	1520		1160	227	711	--	--	--	--	--	--	--	--	--	--	--	
FEB 8......	1520		1160	212	664	63	76	85	89	90	91	92	95	99	100	--	SCBW
FEB 9......	1150	0.0	979	90	238	--	--	--	--	--	--	--	--	--	--	--	
FEB 23......	0935	4.5	383	100	103	--	--	--	--	--	--	--	--	--	--	--	
FEB 23......	1330	5.0	417	72	81	--	--	--	--	--	--	--	--	--	--	--	
JUL 15......	0830		37	27	2.7	--	--	--	--	--	--	--	--	--	--	--	

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	CONCENTRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCENTRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
				01467150 - COOPER RIVER AT HADDONFIELD NJ (LAT 39 54 11 LONG 075 01 19)					
OCT 13, 1970	1550	14	12	.45	FEB 5......	1715	105	45	13
OCT 16......	1045	14	22	.83	FEB 8......	1115	271	97	71
OCT 22......	1023	182	110	54	FEB 8......	1230	266	91	65
OCT 22......	1300	244	52	34	FEB 9......	1030	74	62	12
OCT 22......	1308	249	72	48	FEB 12......	1500	22	21	1.2
OCT 22......	1503	271	71	52	FEB 16......	1700	24	20	1.3
OCT 22......	1505	271	89	65	FEB 20......	1650	26	16	1.1
OCT 22......	1525	276	63	47	FEB 23......	1035	198	55	29
OCT 23......	1330	70	180	34	FEB 23......	1120	194	62	32
OCT 23......	1335	67	40	7.2	FEB 23......	1215	190	48	25
NOV 4......	1330	30	25	2.0	FEB 23......	1500	152	40	16
DEC 24......	1540	42	26	2.9	MAR 3......	1715	53	18	2.6
JAN 5, 1971	0400	169	87	40	MAR 9......	1215	28	22	1.7
JAN 5......	0700	173	36	17	MAR 29......	1650	24	15	.97
JAN 5......	1000	173	23	11	MAY 14......	0710	42	16	1.8
JAN 5......	1300	230	51	32	JUL 14......	1510	14	20	.76
JAN 5......	1600	235	72	46	JUL 30......	0830	31	24	2.0
JAN 5......	1900	186	128	64	AUG 27......	1015	289	120	94
JAN 5......	2200	173	125	58	AUG 27......	1445	820	114	252

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS-CHARGE (CFS)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
01411900 - MAURICE R AT MILLVILLE NJ (LAT 39 23 43 LONG 075 02 27)								
OCT., 1970 12...	--	30	1	0	1	3	.0	26
01456000 - MUSCONETCONG R NR HACKETTSTOWN NJ (LAT 40 53 10 LONG 074 48 00)								
OCT., 1970 15...	332	0	0	0	0	4	.0	8
01467190 - COOPER RIVER AT CAMDEN, N. J. (LAT 39 55 35 LONG 075 05 03)								
OCT., 1970 12...	--	10	1	0	1	4	.0	15

ON-SITE DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
01411900 - MAURICE R AT MILLVILLE NJ (LAT 39 23 43 LONG 075 02 27)						
OCT., 1970 12...	1100	19.0	120	6.8	--	--
01467190 - COOPER RIVER AT CAMDEN, N. J. (LAT 39 55 35 LONG 075 05 03)						
OCT., 1970 12...	1300	20.0	350	--	--	--

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
01400850 - WOODSVILLE BROOK AT WOODSVILLE, N. J. (LAT 40 22 37 LONG 074 49 33)									
DEC 17, 1970	0940	20	54	2.9					
01400870 - STONY BRK TRIB NO 3 NR HOPEWELL, N. J. (LAT 40 24 12 LONG 074 48 06)									
DEC 17, 1970	0950	48	30	3.9					
01400930 - BALDWIN CREEK AT PENNINGTON, N. J. (LAT 40 20 18 LONG 074 47 50)									
DEC 17, 1970	0930	49	51	6.7					
01400970 - HONEY BRANCH NEAR ROSEDALE, N. J. (LAT 40 20 26 LONG 074 44 39)									
DEC 17, 1970	1045	60	32	5.2					

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES--Continued

INSTANTANEOUS SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	DATE	TIME	DISCHARGE (CFS)	CONCEN-TRATION (MG/L)	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)
01467081 - SOUTH BR PENNSAUKEN CK AT CHERRY HILL NJ (LAT 39 56 30 LONG 075 00 05)									
OCT 22, 1970	1050	84	310	70	FEB 23......	1230	90	145	35
OCT 22......	1335	100	235	63	MAY 14......	0740	24	16	1.0
OCT 22......	1550	123	247	82	JUL 30......	0815	30	68	5.5
OCT 23......	1403	19	48	2.5	JUL 30......	1200	11	273	8.1
FEB 8, 1971	1200	187	250	126	JUL 30......	1530	161	259	113
FEB 8......	1315	146	484	191	AUG 27......	1000	204	553	305
FEB 9......	1105	42	107	12	AUG 27......	1415	571	76	117
FEB 23......	1130	103	155	43	AUG 27......	1830	483	75	98
01467330 - SO BR BIG TIMBER CK AT BLACKWOOD NJ (LAT 39 48 17 LONG 075 04 33)									
OCT 22, 1970	1130	114	26	8.0	FEB 23......	0735	116	31	9.7
OCT 22......	1330	125	44	15	FEB 23......	0950	105	26	7.4
OCT 22......	1515	144	43	17	FEB 23......	1235	88	25	5.9
DEC 15......	1620	93	22	5.5	FEB 23......	1430	79	27	5.8
DEC 17......	1255	116	18	5.6	JUL 30......	0945	22	12	.71
DEC 17......	1505	101	27	7.4	JUL 30......	1315	30	86	7.0
FEB 8, 1971	1000	198	59	32	JUL 30......	1445	40	32	3.5
FEB 8......	1210	190	58	30	AUG 27......	1015	116	103	32
FEB 8......	1400	153	58	24	AUG 27......	1200	305	306	252
FEB 8......	1600	133	58	21	AUG 27......	1420	780	391	823
01475020 - MANTUA CREEK AT SEWELL NJ (LAT 39 46 22 LONG 075 08 10)									
OCT 22, 1970	1100	143	575	222	FEB 23......	1015	88	113	27
OCT 22......	1300	170	682	313	FEB 23......	1300	66	77	14
OCT 22......	1500	220	514	305	FEB 23......	1410	56	70	11
DEC 15......	1440	60	142	23	JUL 30......	1000	17	29	1.3
DEC 17......	1225	156	106	45	JUL 30......	1300	25	140	9.5
DEC 17......	1600	54	82	12	JUL 30......	1500	27	159	12
FEB 8, 1971	1020	390	403	424	AUG 27......	1100	235	660	419
FEB 8......	1230	235	356	226	AUG 27......	1230	760	1240	2540
FEB 8......	1415	178	368	177	AUG 27......	1442	1350	1560	5690
FEB 8......	1535	133	303	109					

(Aquifer code designations are listed on p. 270)

LOCAL NUMBER	WELL OWNER	WELL NUMBER	MAJOR AQUIFER	DEPTH OF WELL (FT.)	DATE OF SAMPLE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	CHLORIDE (CL) (MG/L)
ATLANTIC COUNTY								
ABSECON CITY								
ABSECON 1	ATLANTIC CO W C	392551N0743023.1	TFCS	204	11-02-70	12.7	52	6.4
EGG HARBOR TOWNSHIP								
FIRE ROAD	ATLANTIC CO W C	392254N0743432.1	TFCS	133	11-02-70	--	43	6.4
PLEASANTVILLE CITY								
DELILAH RD	ATLANTIC CO W C	392432N0743113.1	TFCS	109	11-02-70	12.7	79	10
SOMERS POINT CITY								
ACWC 2-5TH ST	ATLANTIC CO W C	391908N0743602.1	TFCS	118	11-02-70	--	64	12
DOBBS AVE	ATLANTIC CO W C	391905N0743631.1	TFCS	99	11-02-70	--	104	16

LOCAL NUMBER	WELL OWNER	WELL NUMBER	MAJOR AQUIFER	DEPTH OF WELL (FT.)	DATE OF SAMPLE	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	BICARBONATE (HCO3) (MG/L)
BERGEN COUNTY									
EAST RUTHERFORD BOROUGH									
TOYOTA	TOYOTA MTR DIST	404834N0740619.1	QGOG	198	02-18-71	760	130	A817	123

LOCAL NUMBER	DATE OF SAMPLE	CARBONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLORIDE (CL) (MG/L)	NITRATE (NO3) (MG/L)	PHOSPHATE (PO4) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH
BERGEN COUNTY										
EAST RUTHERFORD BOROUGH										
TOYOTA	02-18-71	0	435	2590	.0	.01	2430	2330	8100	7.5

A Calculated Na plus K, reported as Na.

LOCAL NUMBER	WELL OWNER	WELL NUMBER	MAJOR AQUIFER	DEPTH OF WELL (FT.)	DATE OF SAMPLE	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)
BURLINGTON COUNTY								
NEW HANOVER TOWNSHIP								
MCGUIRE A	US AIR FORCE	400216N0743607.1	K3MR	1055	06-08-71	8.5	500	80
MCGUIRE C	US AIR FORCE	400150N0743657.1	K3MR	1089	06-08-71	8.2	720	70
NORTH HANOVER TOWNSHIP								
MCGUIRE B	US AIR FORCE	400300N0743517.1	K3MR	835	06-08-71	7.4	1150	100
TABERNACLE TOWNSHIP								
BIRCHES 1	BIRCHES CRNBERY	394858N0743746.1	T4KW	90	12-22-70	4.9	190	0

LOCAL NUMBER	DATE OF SAMPLE	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)
BURLINGTON COUNTY											
NEW HANOVER TOWNSHIP											
MCGUIRE A	06-08-71	15	2.6	7.3	5.9	62	0	17	4.3	.2	.1
MCGUIRE C	06-08-71	15	2.6	4.5	4.0	63	0	8.3	4.0	.2	.1
NORTH HANOVER TOWNSHIP											
MCGUIRE B	06-08-71	13	2.3	3.5	3.3	44	0	6.9	5.5	.2	.0
TABERNACLE TOWNSHIP											
BIRCHES 1	12-22-70	.5	.5	3.8	.6	1	0	3.5	3.5	.0	.0

LOCAL NUMBER	DATE OF SAMPLE	PHOS-PHATE (PO4) (MG/L)	DISS-OLVED SOLIDS (RESI-DUE AT 180 C)	DISS-OLVED SOLIDS (SUM OF CONSTI-TUENTS)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH	COLOR	TEMP-ERATURE (DEG C)
BURLINGTON COUNTY										
NEW HANOVER TOWNSHIP										
MCGUIRE A	06-08-71	--	94	91	48	0	138	7.2	2	--
MCGUIRE C	06-08-71	--	97	87	48	0	131	7.3	1	--
NORTH HANOVER TOWNSHIP										
MCGUIRE B	06-08-71	--	73	64	42	6	114	6.8	2	--
TABERNACLE TOWNSHIP										
BIRCHES 1	12-22-70	.01	12	18	6	5	40	4.6	2	12.4

LOCAL NUMBER	WELL OWNER	WELL NUMBER	MAJOR AQUIFER	DEPTH OF WELL (FT.)	DATE OF SAMPLE	SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)
			CAMDEN COUNTY					
			CAMDEN CITY					
CITY 17	CAMDEN CITY W D	395546N0750533.1	K3MR	265	12-22-70	11	1300	100
NY SHIP 7	SO JRSY PORT CM	395455N0750716.1	K3MR	229	07-14-71	5.9	3900	330
			GLOUCESTER CITY					
3-DEEP	NJ ZINC CO	395313N0750804.1	K3MR	255	05-14-71	10	3100	130
			GIBBSBORO BOROUGH					
RADAR 1	US AIR FORCE	394927N0745715.1	K3MW	290	01-04-71	10	1100	20
RADAR 2	US AIR FORCE	394923N0745714.1	K3MW	310	01-04-71	10	130	10
			PENNSAUKEN TOWNSHIP					
MORRIS 10	CAMDEN CITY W D	395923N0750300.1	K3MR	115	12-21-70	6.7	2000	2300

LOCAL NUMBER	DATE OF SAMPLE	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)
					CAMDEN COUNTY						
					CAMDEN CITY						
CITY 17	12-22-70	16	4.8	8.4	4.1	42	0	32	11	.0	1.9
NY SHIP 7	07-14-71	20	4.5	17	4.1	48	0	23	23	.0	1.1
					GLOUCESTER CITY						
3-DEEP	05-14-71	46	10	30	12	241	0	9.8	20	.3	4.5
					GIBBSBORO BOROUGH						
RADAR 1	01-04-71	25	2.5	2.7	4.0	77	0	11	7.6	.4	.2
RADAR 2	01-04-71	25	2.5	2.7	4.2	79	0	12	8.0	.3	.1
					PENNSAUKEN TOWNSHIP						
MORRIS 10	12-21-70	46	11	16	2.6	166	0	30	23	.0	.8

LOCAL NUMBER	DATE OF SAMPLE	PHOS-PHATE (PO4) (MG/L)	DISS-OLVED SOLIDS (RESI-DUE AT 180 C)	DISS-OLVED SOLIDS (SUM OF CONSTI-TUENTS)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPECI-FIC CONDU-UCTANCE (MICRO-MHOS)	PH	COLOR	TEMP-ERATURE (DEG C)
					CAMDEN COUNTY					
					CAMDEN CITY					
CITY 17	12-22-70	.01	109	110	60	25	181	7.2	1	13.5
NY SHIP 7	07-14-71	.07	135	132	69	29	226	7.5	1	14.9
					GLOUCESTER CITY					
3-DEEP	05-14-71	.02	248	261	156	0	439	7.3	1	14.4
					GIBBSBORO BOROUGH					
RADAR 1	01-04-71	--	98	101	73	10	171	7.9	0	--
RADAR 2	01-04-71	--	100	104	73	8	174	7.5	5	--
					PENNSAUKEN TOWNSHIP					
MORRIS 10	12-21-70	.01	206	218	160	24	381	7.2	1	13.1

CAPE MAY COUNTY

LOCAL NUMBER	WELL OWNER	WELL NUMBER	MAJOR AQUIFER	DEPTH OF WELL (FT.)	DATE OF SAMPLE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	CHLORIDE (CL) (MG/L)
CAPE MAY CITY								
USCG 2	US COAST GUARD	385652N0745327.1	TFCS	325	11-03-70	15.4	325	26
USCG 1	US COAST GUARD	385650N0745311.1	TFCS	322	11-03-70	15.5	362	60
CAPE MAY POINT BOROUGH								
SUNSET 2	CAPE MAY PT W D	385631N0745741.1	TFCS	277	11-03-70	15.1	1130	246
LOWER TOWNSHIP								
LTWC 2	LOWER TWP W C	385905N0745625.1	TFCS	247	11-03-70	14.5	260	18
LTWC 1	LOWER TWP W C	385853N0745712.1	TFCS	262	11-03-70	15.1	239	20
CMCWD 3	CAPE MAY C W D	385724N0745521.1	TFCS	276	11-03-70	14.8	311	28
SNOW 2	FH SNOW CANNING	385722N0745241.1	TFCS	320	11-03-70	15.2	255	18
CMCWD 2	CAPE MAY C W D	385701N0745528.1	TFCS	282	11-03-70	14.6	319	28
NW MAG 1	NW MAGNESITE CO	385645N0745803.1	TFCS	321	11-03-70	15.8	1410	256
NW MAG 2	NW MAGNESITE CO	385643N0745755.1	TFCS	265	11-03-70	15.0	792	124
MIDDLE TOWNSHIP								
RIO GRANDE 30	WILDWOOD W D	390149N0745354.1	TFCS	251	11-03-70	14.2	146	14
RIO GRANDE 14	WILDWOOD WD	390142N0745346.1	QGCE	108	11-03-70	13.3	159	14
RIO GRANDE 15	WILDWOOD WD	390141N0745347.1	TFCS	235	11-03-70	13.8	164	14
RIO GRANDE 37	WILDWOOD W D	390140N0745348.1	QGCM	60	11-03-70	14.6	143	20
RIO GRANDE 29	WILDWOOD W D	390139N0745349.2	TFCS	244	11-03-70	13.8	164	14
RIO GRANDE 31	WILDWOOD W D	390138N0745350.1	QGCE	135	11-03-70	13.5	182	10
RIO GRANDE 36	WILDWOOD W D	390137N0745352.1	QGCM	63	11-03-70	13.6	227	30
RIO GRANDE 33	WILDWOOD W D	390136N0745342.1	TFCS	250	11-03-70	14.5	166	14
RIO GRANDE 28	WILDWOOD W D	390135N0745358.1	TFCS	244	11-03-70	14.5	160	14
RIO GRANDE 38	WILDWOOD W D	390135N0745350.1	TMKW	590	11-03-70	16.8	368	32
RIO GRANDE 34	WILDWOOD WD	390130N0745350.1	TFCS	242	11-03-70	14.6	195	16
RIO GRANDE 32	WILDWOOD W D	390128N0745339.1	TFCS	254	11-03-70	14.2	158	14
OCEAN CITY								
OCEAN CITY 11	OCEAN CITY NJWC	391726N0743352.1	TMKW	800	11-02-70	19.0	178	8.0
OCEAN CITY 8	OCEAN CITY NJWC	391638N0743451.1	TMKW	830	11-02-70	19.0	217	14
OCEAN CITY 7	OCEAN CITY NJWC	391343N0743755.1	TMKL	810	11-02-70	19.2	199	12
SEA ISLE CITY								
SICWD 4	SEA ISLE C W D	390847N0744200.1	TMKW	830	11-02-70	19.2	240	14
STONE HARBOR BOROUGH								
STONE HARBOR 4	STONE HARBOR WD	390301N0744545.1	TMKL	880	11-02-70	19.9	314	30
UPPER TOWNSHIP								
CIWC 1	CORSONS INLET W	391152N0743927.1	TMKL	834	11-02-70	18.6	211	16
WILDWOOD CITY								
WWD 2	WILDWOOD W D	385932N0744851.2	TFCS	354	11-02-70	15.4	591	116
OTTENS 1	OTTENS ICE CO	385927N0744938.1	TFCS	335	11-02-70	15.6	458	76
WILDWOOD CREST BOROUGH								
WWD 35	WILDWOOD W D	385830N0745021.1	TFCS	360	11-02-70	16.4	181	16

LOCAL NUMBER	WELL OWNER	WELL NUMBER	MAJOR AQUIFER	DEPTH OF WELL (FT.)	DATE OF SAMPLE	SILICA (SIO2) (MG/L)	TOTAL ALUM-INIUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)
GLOUCESTER COUNTY									
GREENWICH TOWNSHIP									
REPAUNO 20	E I DUPONT	395016N0751738.1	K3MR	103	12-21-70	38	0	10000	9200
REPAUNO 6	E I DUPONT	394944N0751734.1	K3MR	109	12-21-70	9.9	--	70	140
HARRISON TOWNSHIP									
SJWSC 3	SO JERSEY W S C	394408N0751338.1	K3MR	270	12-22-70	9.8	0	60	0
NATIONAL PARK BOROUGH									
NPWD 2	NATIONAL PK W D	395156N0751053.1	K3MR	282	05-18-71	10	--	780	30
WEST DEPTFORD TOWNSHIP									
EAGLE PT 3-OBS	TEXAS OIL CO	395232N0750942.1	K3MR	276	05-18-71	11	--	2600	90
EAGLE POINT 4	TEXAS OIL CO	395213N0750936.1	K3MR	294	05-18-71	12	--	1200	40
EAGLE POINT 6	TEXAS OIL CO	395153N0750946.1	K3MR	318	12-22-70	13	--	2200	60
WESTVILLE BOROUGH									
WWD 4	WESTVILLE W D	395221N0750737.1	K3MR	313	05-20-71	8.9	--	450	30

LOCAL NUMBER	DATE OF SAMPLE	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO-RIDE (CL) (MG/L)	FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)
GLOUCESTER COUNTY											
GREENWICH TOWNSHIP											
REPAUNO 20	12-21-70	48	24	220	7.4	0	0	589	128	1.4	2.7
REPAUNO 6	12-21-70	10	5.5	68	4.3	10	0	30	113	.0	5.2
HARRISON TOWNSHIP											
SJWSC 3	12-22-70	8.4	3.1	204	9.4	281	37	4.0	145	1.3	2.1
NATIONAL PARK BOROUGH											
NPWD 2	05-18-71	8.5	2.3	53	4.5	120	0	8.8	30	.8	.0
WEST DEPTFORD TOWNSHIP											
EAGLE PT 3-OBS	05-18-71	26	5.9	34	8.4	164	0	5.4	20	.3	.7
EAGLE POINT 4	05-18-71	11	2.9	44	5.2	117	0	10	23	.4	.9
EAGLE POINT 6	12-22-70	15	3.0	30	5.1	33	0	65	24	.2	.3
WESTVILLE BOROUGH											
WWD 4	05-20-71	13	2.9	23	6.6	92	0	15	7.6	.5	.0

LOCAL NUMBER	DATE OF SAMPLE	PHOS- PHATE (PO4) (MG/L)	DISS- OLVED SOLIDS (RESI- DUE AT 180 C)	DISS- OLVED SOLIDS (SUM OF CONSTI- TUENTS)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH	COLOR	TEMP- ERATURE (DEG C)
GLOUCESTER COUNTY										
GREENWICH TOWNSHIP										
REPAUNO 20	12-21-70	.01	1280	1060	219	219	1850	3.8	3	13.8
REPAUNO 6	12-21-70	.02	250	251	48	40	460	6.7	2	12.8
HARRISON TOWNSHIP										
SJWSC 3	12-22-70	.59	536	562	34	0	948	8.5	1	15.0
NATIONAL PARK BOROUGH										
NPWD 2	05-18-71	.28	178	167	31	0	316	6.5	5	13.4
WEST DEPTFORD TOWNSHIP										
EAGLE PT 3-OBS	05-18-71	.02	189	192	90	0	337	7.1	0	14.5
EAGLE POINT 4	05-18-71	.16	164	167	40	0	289	7.1	11	14.2
EAGLE POINT 6	12-22-70	.02	169	172	50	23	275	6.9	1	13.8
WESTVILLE BOROUGH										
WWD 4	05-20-71	.16	119	123	45	0	202	7.4	1	14.2

LOCAL NUMBER	WELL OWNER	WELL NUMBER	MAJOR AQUIFER	DEPTH OF WELL (FT.)	DATE OF SAMPLE	TEMP- ERATURE (DEG C)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	CHLO- RIDE (CL) (MG/L)
MIDDLESEX COUNTY								
MADISON TOWNSHIP								
LAWRENCE HAR 1	MADISON TWP MUA	402700N0741459.1	K3RO	218	10-29-70	13.8	--	3.0
LAWRENCE HAR 2	MADISON TWP MUA	402700N0741459.2	K3RF	400	10-29-70	13.5	46	3.0
PERTH AMBOY 2	PERTH AMBOY W W	402543N0742010.1	K3MR	260	10-30-70	12.0	71	10
MONROE TOWNSHIP								
BOYS HOME 3	NJ HOME FOR BOY	402036N0742344.1	K3RF	--	10-30-70	13.3	37	3.0
SAYREVILLE BOROUGH								
DUPONT 60F	E I DUPONT CO	402958N0741938.1	K3RF	287	10-30-70	15.9	490	70
SAWD 10	SOUTH AMBOY W D	402825N0741632.1	K3MR	48	10-29-70	12.5	169	16
SAWD 9	SOUTH AMBOY W D	402824N0741631.1	K3MR	48	10-29-70	11.9	118	7.8
SAWD 8	SOUTH AMBOY W D	402822N0741630.1	K3MR	234	10-29-70	12.8	42	1.8
DUPONT 3	E I DUPONT	402715N0741932.1	K3RF	284	10-30-70	--	48	6.4
DUPONT 1	E I DUPONT	402715N0741924.1	K3RF	286	10-30-70	12.4	41	5.2
DUPONT 5	E I DUPONT	402712N0741921.1	K3RF	309	10-30-70	12.3	40	5.2
DUPONT 6	E I DUPONT	402708N0741922.1	K3RF	325	10-30-70	12.1	38	6.0
SAYREVILLE G	SAYREVILLE W D	402624N0741944.1	K3MR	87	12-16-70	--	--	157
SAYREVILLE C	SAYREVILLE W D	402612N0742010.1	K3MR	73	10-30-70	11.4	209	20
SAYREVILLE B	SAYREVILLE W D	402604N0742004.1	K3RO	81	10-30-70	11.2	161	19
SOUTH RIVER BOROUGH								
SRWD 3	SOUTH RIVER W D	402559N0742142.1	K3MR	198	10-29-70	11.7	42	6.5
SRWD 1	SOUTH RIVER W D	402557N0742138.1	K3MR	193	10-29-70	11.6	46	4.6
SRWD 2	SOUTH RIVER W D	402556N0742141.1	K3MR	198	10-29-70	11.8	43	4.6

GROUND-WATER QUALITY RECORDS--Continued

LOCAL NUMBER	WELL OWNER	WELL NUMBER	MAJOR AQUIFER	DEPTH OF WELL (FT.)	DATE OF SAMPLE	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	CHLORIDE (CL) (MG/L)	PH
			MONMOUTH COUNTY						
			ALLENHURST BOROUGH						
AWD 4	ALLENHURST W D	401401N0740025.1	K3ET	570	10-29-70	17.2	206	2.8	--
			ATLANTIC HIGHLAND BOROUGH						
AHWD 2	ATLAN HIGH W D	402441N0740234.1	K3ET	200	10-29-70	13.6	164	7.5	--
AHWD 3	ATLAN HIGH W D	402441N0740233.1	K3MR	576	10-29-70	15.6	65	3.5	--
			AVON-BY-THE-SEA BOROUGH						
AWD 1	AVON WATER DEPT	401138N0740125.1	K3MW	508	07-28-71	17.8	224	2.1	8.1
AWD 2	AVON WATER DEPT	401136N0740120.1	K3MW	503	07-28-71	18.2	219	2.1	8.1
			BELMAR BOROUGH						
BWD 4 ELEC	BELMAR BORO WD	401102N0740045.1	K3ET	679	10-29-70	18.5	191	1.6	--
BWD 1 ELEC	BELMAR BORO WD	401040N0740145.1	K3ET	545	10-29-70	18.5	184	3.5	--
			BRIELLE BOROUGH						
BWD 2	BRIELLE WATER D	400645N0740345.1	K3ET	750	10-30-70	19.3	179	2.5	--
BWD 1	BRIELLE WATER D	400644N0740344.1	TMKW	150	10-30-70	14.6	173	4.0	--
			HAZLET TOWNSHIP						
W KEANSBURG 1	W KEANSBURG W D	402533N0740933.1	K3RO	366	10-29-70	13.5	41	3.5	--
			HIGHLANDS BOROUGH						
HWD 2 NEW	HIGHLANDS W D	402400N0735912.1	K3MR	665	10-29-70	19.4	182	3.0	--
SPRING	HIGHLANDS W D	402359N0735917.1	TLHT	+10	10-29-70	15.2	256	48	--
			HOLMDEL TOWNSHIP						
--	A FLEMER	402255N0741010.1	K3MW	121	08-02-71	16.4	227	41	7.2
			HOWELL TOWNSHIP						
SCHROTH	EMIL A SCHROTH	401255N0741147.1	K3MR	801	07-29-71	17.9	71	3.9	7.3
			KEANSBURG BOROUGH						
KWD 4	KEANSBURG W D	402352N0740739.1	K3RO	351	10-29-70	13.2	48	2.5	--

LOCAL NUMBER	WELL OWNER	WELL NUMBER	MAJOR AQUIFER	DEPTH OF WELL (FT.)	DATE OF SAMPLE	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	CHLO-RIDE (CL) (MG/L)	PH
MONMOUTH COUNTY									
KEYPORT BOROUGH									
KEYPORT BORO 5	KEYPORT WATER D	402624N0741145.1	K3RO	261	10-29-70	13.1	40	4.5	--
MANASQUAN BOROUGH									
MWD 6	MANASQUAN W D	400728N0740328.1	TMKW	180	10-30-70	12.5	52	9.5	--
MWD 2R	MANASQUAN W D	400715N0740326.1	TMKW	117	10-30-70	13.0	74	14	--
MWD 3	MANASQUAN W D	400714N0740326.1	TMKW	118	10-30-70	13.1	80	14	--
MWD 1R	MANASQUAN W D	400711N0740330.1	TMKW	116	10-30-70	12.7	56	10	--
MWD 5	MANASQUAN W D	400708N0740329.1	TMKW	118	10-30-70	12.8	77	11	--
MARLBORO TOWNSHIP									
--	GEORGE WENDEL	401848N0741324.1	K3MW	80	08-02-71	16.2	130	3.9	7.0
MATAWAN TOWNSHIP									
MATAWAN BORO 1	MATAWAN BORO WD	402602N0741424.1	K3RO	252	10-29-70	13.7	46	2.6	--
MIDDLETOWN TOWNSHIP									
FT HANCOCK 4	US ARMY	402706N0735952.1	K3MR	486	10-29-70	15.5	945	168	--
FT HANCOCK 2	US ARMY	402700N0735958.1	K3MR	724	10-29-70	18.2	93	4.0	--
NEPTUNE CITY BOROUGH									
APWD LAYNE 3	ASBURY PARK W D	401233N0740100.1	K3MR	1138	10-29-70	21.4	88	3.5	--
NEPTUNE TOWNSHIP									
OCEAN GROVE 21	MONMOUTH CON WC	401216N0740108.1	K3MW	430	07-28-71	18.7	184	1.7	8.0
RED BANK BOROUGH									
RBWD 18	RED BANK W D	402047N0740420.1	K3MR	687	10-29-70	16.7	65	4.0	--
RBWD 3	RED BANK W D	402020N0740411.1	K3ET	268	10-29-70	13.8	232	6.5	--
SPRING LAKE BOROUGH									
SLWD 3	SPRING LAKE W D	400915N0740146.1	K3ET	705	10-30-70	18.4	184	3.5	--
SLWD 1	SPRING LAKE W D	400849N0740207.1	K3ET	698	10-30-70	18.9	182	3.0	--
UNION BEACH BOROUGH									
UBWD 3 1962	UNION BEACH W D	402632N0741051.1	K3RO	285	10-29-70	13.2	46	5.0	--
UPPER FREEHOLD TOWNSHIP									
--	CAROUSEL FARM	400918N0742812.1	K3MW	112	08-06-71	16.3	249	3.3	8.1
--	HANS MIKLAU	400735N0743127.1	K3MW	64	08-03-71	16.0	290	6.0	8.2
--	THOMAS HERBERT	400620N0743058.1	K3MW	81	08-03-71	18.8	172	2.4	8.2
--	RUSSELL HOPKINS	400615N0743034.1	K3MW	87	08-03-71	20.3	160	2.7	8.0

LOCAL NUMBER	WELL OWNER	WELL NUMBER	MAJOR AQUIFER	DEPTH OF WELL (FT.)	DATE OF SAMPLE	SILICA (SIO2) (MG/L)
MONMOUTH COUNTY						
AVON-BY-THE-SEA BOROUGH						
AWD 1	AVON WATER DEPT	401138N0740125.1	K3MW	508	07-28-71	9.7
AWD 2	AVON WATER DEPT	401136N0740120.1	K3MW	503	07-28-71	10
HOLMDEL TOWNSHIP						
--	A FLEMER	402255N0741010.1	K3MW	121	08-02-71	13
HOWELL TOWNSHIP						
SCHROTH	EMIL A SCHROTH	401255N0741147.1	K3MR	801	07-29-71	3.9
MARLBORO TOWNSHIP						
--	GEORGE WENDEL	401848N0741324.1	K3MW	80	08-02-71	4.7
NEPTUNE TOWNSHIP						
OCEAN GROVE 21	MONMOUTH CON WC	401216N0740108.1	K3MW	430	07-28-71	9.5
UPPER FREEHOLD TOWNSHIP						
--	CAROUSEL FARM	400918N0742812.1	K3MW	112	08-06-71	17
--	HANS MIKLAU	400735N0743127.1	K3MW	64	08-03-71	25
--	THOMAS HERBERT	400620N0743058.1	K3MW	81	08-03-71	7.2
--	RUSSELL HOPKINS	400615N0743034.1	K3MW	87	08-03-71	15

LOCAL NUMBER	DATE OF SAMPLE	CAL-CIUM (CA) (MG/L)	MAG-NE-SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	FLUO-RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	PHOS-PHATE (PO4) (MG/L)
MONMOUTH COUNTY											
AVON-BY-THE-SEA BOROUGH											
AWD 1	07-28-71	30	6.0	4.8	7.9	97	0	35	.3	.5	.05
AWD 2	07-28-71	28	6.0	5.4	8.2	100	0	28	.2	.6	.02
HOLMDEL TOWNSHIP											
--	08-02-71	22	3.6	9.2	5.7	34	0	8.7	1.0	.3	.08
HOWELL TOWNSHIP											
SCHROTH	07-29-71	6.1	2.0	2.8	6.0	29	0	3.8	.1	.1	0
MARLBORO TOWNSHIP											
--	08-02-71	4.2	4.6	5.4	16	9	0	34	.1	10	.30
NEPTUNE TOWNSHIP											
OCEAN GROVE 21	07-28-71	26	4.6	4.2	6.0	88	0	24	.3	.4	.06
UPPER FREEHOLD TOWNSHIP											
--	08-06-71	43	3.0	2.2	5.7	150	0	4.9	.2	.4	.07
--	08-03-71	50	3.0	2.4	5.7	151	0	14	1.0	.3	.08
--	08-03-71	30	2.1	1.6	5.7	102	0	5.2	.3	.2	.09
--	08-03-71	28	1.7	1.8	4.9	94	0	6.3	.2	.1	.16

LOCAL NUMBER	DATE OF SAMPLE	DISSOLVED SOLIDS (RESIDUE AT 180 C)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	COLOR
MONMOUTH COUNTY						
AVON-BY-THE-SEA BOROUGH						
AWD 1	07-28-71	143	144	100	20	1
AWD 2	07-28-71	141	138	95	13	4
HOLMDEL TOWNSHIP						
--	08-02-71	134	121	70	42	2
HOWELL TOWNSHIP						
SCHROTH	07-29-71	43	43	23	0	5
MARLBORO TOWNSHIP						
--	08-02-71	87	87	30	22	3
NEPTUNE TOWNSHIP						
OCEAN GROVE 21	07-28-71	127	120	84	12	0
UPPER FREEHOLD TOWNSHIP						
--	08-06-71	164	154	120	0	2
--	08-03-71	195	182	138	14	1
--	08-03-71	113	105	84	0	2
--	08-03-71	120	107	77	0	4

LOCAL NUMBER	WELL OWNER	WELL NUMBER	MAJOR AQUIFER	DEPTH OF WELL (FT.)	DATE OF SAMPLE	TEMP-ERATURE (DEG C)	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	CHLO-RIDE (CL) (MG/L)
OCEAN COUNTY								
BARNEGAT LIGHT BOROUGH								
BLWD 2	BARNEGAT LT W D	394524N0740632.1	TMKW	646	08-12-71	17.2	360	3.5
BEACH HAVEN BOROUGH								
BHWD 8	BEACH HAVEN W D	393346N0741430.1	TMKW	656	08-09-71	19.6	123	7.2
EAGLESWOOD TOWNSHIP								
JOHNSON	CHARLES JOHNSON	393755N0741749.1	TFCS	257	08-09-71	13.9	67	4.4
HARVEY CEDARS BOROUGH								
HCWD 3	HARVEY CDRS W D	394218N0740808.1	TMKW	493	08-12-71	16.7	83	7.8
HCWD 4	HARVEY CDRS W D	394134N0740832.1	TMKW	500	08-12-71	16.7	67	4.8
LONG BEACH TOWNSHIP								
BRANT BEACH 1	LONG BEACH W C	393725N0741150.1	TMKW	615	08-09-71	16.7	50	5.9
TERRACE 1	LONG BEACH W C	393510N0741330.1	TMKW	582	08-09-71	17.0	50	6.0
LBTWD 2	LONG BEACH W D	393206N0741548.1	TMKW	458	08-12-71	15.9	141	2.3
SHIP BOTTOM BOROUGH								
SBWD 4	SHIP BOTTOM W D	393839N0741052.1	TMKW	578	08-12-71	16.4	56	6.8
STAFFORD TOWNSHIP								
STAFFORD 3	STAFFORD TWP WC	394042N0741411.1	TMKW	428	08-09-71	14.2	42	3.6
STAFFORD 2	STAFFORD TWP WC	394021N0741351.1	TMKW	234	08-09-71	13.2	45	5.5
TONNESON	EDWARD TONNESON	394009N0741304.1	TFCS	--	08-09-71	13.0	218	38
SURF CITY BOROUGH								
SCWD 3	SURF CITY W D	393923N0741016.1	TMKW	561	08-12-71	16.2	54	4.4
TUCKERTON BOROUGH								
TWWC 4 1926	TUCKERTON WW CO	393610N0742031.1	TMKW	486	08-09-71	15.1	50	4.4
UNION TOWNSHIP								
FLOWING WELL	UNKNOWN OWNER	394444N0741210.1	TFCS	--	08-09-71	12.9	54	7.0
SALEM COUNTY								
MANNINGTON TOWNSHIP								
HOSPITAL 1	SALEM CO HOSP	393538N0752640.1	K3MW	97	08-09-71	14.0	278	18

The following list gives the aquifer codes and geologic names of the formations in which the wells are finished.

The aquifer codes also appear in the column "Major Aquifer" in the preceding table:

QGOG, Glacial till, undifferentiated
QGCM, Cape May Formation, undifferentiated
QGCE, Cape May Formation, Estuarine sand facies
TFCS, Cohansey Sand
TMKW, Kirkwood Formation, undifferentiated
TMKL, Kirkwood Formation, lower sand
TLHT, Hornerstown Sand
K3MW, Mount Laurel-Wenonah, undifferentiated
K3ET, Englishtown Formation
K3MR, Magothy and Raritan, undifferentiated
K3RO, Raritan Formation, Old Bridge Sand member
K3RF, Raritan Formation, Farrington Sand member

INDEX

Page
Alloway Creek at Alloway, N.J. ... 251-252,254,256
Analyses of samples collected at miscellaneous sites, in New Jersey ... 258-259
Analyses of samples collected at water-quality partial-record stations,
  in Atlantic Coast basins ... 146-157
  in Delaware River basin ... 250-257
  in Elizabeth River basin ... 56-57
  in Hackensack River basin ... 22-24
  in Hudson River basin ... 18-19
  in Passaic River basin ... 50-55
  in Raritan River basin ... 103-107
Applegates Creek Creek at Adelphia, N.J. ... 150,154
Assunpink Creek at Trenton, N.J. ... 250,252-257
Atlantic County, ground water ... 260

Baldwin Creek at Pennington, N.J. ... 258
Bear Swamp Brook at Lower Squankum, N.J. ... 147,149,152,156
Bergen County, ground water ... 260
Branch Mingamahone Brook near Earle, N.J. ... 147,149,152,156
Burkes Creek at Adelphia, N.J. ... 150,154
Burlington County, ground water ... 261

Camden County, ground water ... 262
Cape May County, ground water ... 263
Collection and examination of data ... 9-13
Cooperation ... 2
Cooper River, at Camden, N.J. ... 258
  at Haddonfield, N.J. ... 250,252-253,256-257
Crosswicks Creek at Extonville, N.J. ... 250,252-253,256

Debois Creek, at Wyckoff Mills, N.J. ... 110-111
  near Freehold, N.J. ... 150,154
Debois Creek Tributary near Freehold, N.J. ... 150,154
Definition of terms ... 3-7
Delaware Bay ... 143-145
Delaware Bay at Ship John Shoal Lighthouse, N.J. ... 143-145
Delaware River, at Benjamin Franklin Bridge, at Philadelphia, Pa ... 219-225
  at Bristol, Pa.-Burlington, N.J. Bridge ... 191-197
  at Chester, Pa ... 228-234
  at Delaware Memorial Bridge, near Wilmington, Del ... 238-244
  at Dunnfield, N.J. (Delaware Water Gap, Pa.) ... 165-168
  at Easton, Pa. (Phillipsburg, N.J.) ... 171-177
  at Fort Mifflin, at Philadelphia, Pa ... 226-227
  at Marcus Hook, Pa ... 251-252,254
  at Montague, N.J. (Milford, Pa.) ... 158-159
  at Reedy Island Jetty, Del ... 245-249
  at Riegelsville, N.J. (Riegelsville, Pa.) ... 178-179
  at Torresdale intake, at Philadelphia, Pa ... 212-218
  at Trenton, N.J. (Morrisville, Pa.) ... 180-190
  near East Stroudsburg, Pa. (Dunnfield, N.J.) ... 160-164
  near Martins Creek, Pa. (Roxburg, N.J.) ... 169-170
Delaware River basin ... 158-259
Downstream order and station number ... 8

Elizabeth River at Elizabeth, N.J. ... 56-57
Elizabeth River basin ... 56-57

Flat Brook near Flatbrookville, N.J. ... 250-251,253,255-256

Gloucester County, ground water ... 264-265
Great Egg Harbor River, at Folsom, N.J. ... 138-142
  at New Brooklyn, N.J. ... 147,149,153
  at Sicklerville, N.J. ... 147,149,153
Great Egg Harbor River basin ... 138-142,147,149,153
Ground-water quality records ... 260-270

Hackensack River, at Hackensack, N.J. ... 20-21
  at New Milford, N.J. ... 22-24
  at Rivervale, N.J. ... 22-24
Hackensack River basin ... 20-24
Honey Branch near Rosedale, N.J. ... 258
Hudson River basin ... 18-19

Introduction ... 1

Page
Manalapan Brook at Spotswood, N.J. ... 103-104,106
Manasquan River, at Allenwood, N.J. ... 131-132
  at Elton, N.J. ... 108-109
  at Fairfield, N.J. ... 113-114
  at Farmingdale, N.J. ... 116
  at Georgia Road, near Georgia, N.J. ... 109-110
  at Riviera Beach, N.J. ... 147,149,153,157
  at Squankum, N.J. ... 120-128
  at Squankum-Allenwood Road, at Allenwood, N.J. ... 133
  at Wyckoff Mills, N.J. ... 112-113
Manasquan River basin ... 108-133,146-157
Manasquan River Tributary, near Farmingdale, N.J. ... 117-118
  near Freewood Acres, N.J. ... 146,148,151,155
  No. 5, at Wyckoff Mills, N.J. ... 146,148,150,154
  No. 6, at Ardena, N.J. ... 146,148,150,154
  No. 7, at Shacks Corner, N.J. ... 146,148,151,155
  No. 7, near Farmingdale, N.J. ... 114-115
  No. 9, near Elton, N.J. ... 146,148,150,154
  No. 10, near Adelphia, N.J. ... 146,148,150,154
  No. 11, near Adelphia, N.J. ... 146,148,150,154
  No. 13, at Shacks Corner, N.J. ... 146,148,151,155
  No. 14, near Freewood Acres, N.J. ... 146,148,151,155
Mantua Creek at Sewell, N.J. ... 259
Marsh Bog Brook, at Farmingdale, N.J. ... 146,148,151,155
  at Shacks Corner, N.J. ... 151,155
  at Squankum, N.J. ... 118-119
Marsh Bog Brook Tributary at Shacks Corner, N.J. ... 146,148,151,155
Maurice River, at Millville, N.J. ... 258
  at Norma, N.J. ... 147,149,153,157
Maurice River basin ... 147,149,153,157,258
McDonalds Branch in Lebanon State Forest, N.J. ... 198-203
Metedeconk River at Laurelton, N.J. ... 134-135
Metedeconk River basin ... 134-135
Middlesex County, ground water ... 265
Mingamahone Brook, at Asbury Avenue, at Farmingdale, N.J. ... 147,149,152,156
  at Birdsall Road, at Farmingdale, N.J. ... 147,149,152,156
  at Squankum, N.J. ... 129-130
  near Earle, N.J. ... 147,149,152,156
Millstone River, at Blackwells Mills, N.J. ... 107
  near Manville, N.J. ... 81-89
Monmouth County, ground water ... 266-269
Musconetcong River, near Bloomsbury, N.J. ... 250-251,253-256
  near Hackettstown, N.J. ... 258

North Branch Raritan River, near Far Hills, N.J. ... 103-106
  near Raritan, N.J. ... 103-106

Ocean County, ground water ... 270

Passaic River, at Harrison, N.J. ... 48-49
  at Little Falls, N.J. ... 45-47
  at Two Bridges, N.J. ... 25-32
  near Chatham, N.J. ... 50-55
  near Millington, N.J. ... 50-52,54-55
Passaic River basin ... 25-55
Pequest River at Pequest, N.J. ... 250-251,253,255
Pompton River, at Pompton Plains, N.J. ... 55
  at Two Bridges, N.J. ... 37-44

Raccoon Creek near Swedesboro, N.J. ... 235-237
Rancocas Creek at Willingboro, N.J. ... 204-211
Ramapo River near Mahwah, N.J. ... 35-36
Raritan River, at Manville, N.J. ... 107
  at Queens Bridge, at Bound Brook, N.J. ... 107
  at Technicon Site No. 1, at Manville, N.J. ... 70-71
  at Technicon Site No. 2, near Manville, N.J. ... 90-91
  at Technicon Site No. 3, at South Bound Brook, N.J. ... 92-93
  near Manville, N.J. ... 72-80
  near South Bound Brook, N.J. ... 94-102
Raritan River basin ... 58-107,258
Rockaway River, above reservoir, at Boonton, N.J. ... 50-54
  at Pine Brook, N.J. ... 50-52,54

INDEX

Page
Saddle River at Lodi, N.J. 50-52,54
Salem County, ground water 270
Sediment 12-13
Selected references 16-17
Solutes 10-11
South Branch Big Timber Creek at Blackwood, N.J. .. 259
South Branch Pennsauken Creek at Cherry Hill, N.J. 259
South Branch Raritan River, at Stanton, N.J. 65-69
South Branch Raritan River near High Bridge, N.J. 58-62
Special networks and programs 7
Spruce Run at Clinton, N.J. 63-64
Squankum Brook, at Lower Squankum, N.J. 130-131
  near Lower Squankum, N.J. 147,149,152,156
Squankum Brook Tributary at Lower Squankum, N.J. 153,157
Stony Brook at Princeton, N.J. 103-107
Stony Brook Tributary No. 3 near Hopewell, N.J. ... 258
Surface-water quality records 18-259

Temperature 12
Toms River, at Toms River, N.J. 136-137
  near Toms River, N.J. 147,149,153,157
Toms River basin 136-137,147,149,153,157

Wallkill River near Unionville, N.Y. (Owens, N.J.) 18-19
Wanaque River at Wanaque, N.J. 33-34
Water-quality conditions 13-15
Water-supply papers 16
Well number 8-9
Whippany River, at Morristown, N.J. 50-55
  near Pine Brook, N.J. 50-52,54
Woodsville Brook at Woodsville, N.J. 258